ORDER NO. MD0306227C1

A6

Service Manual

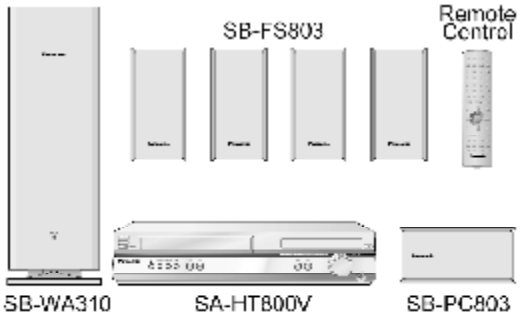
DVD/VCR Home Theater Sound System

SUPER DRIVE Omnivision

SA-HT800VP

Color

(S)... Silver Type



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS output power, 10 % total harmonic distortion

1 kHz FL/FR	45 W per channel 6 Ω
1 kHz Center	60 W per channel 6 Ω
1 kHz SL/SR	45 W per channel 6 Ω
100 Hz Subwoofer	160 W per channel 4 Ω
Total RMS Dolby Digital mode power	400 W

FTC output power, 1 % total harmonic distortion

120 Hz - 20 kHz FL/FR	25 W per channel 6 Ω
120 Hz - 20 kHz Center	30 W per channel 6 Ω
120 Hz - 20 kHz SL/SR	25 W per channel 6 Ω
45 Hz - 120 kHz Subwoofer	90 W per channel 4 Ω
Total FTC power in Dolby Digital mode (Band 1 % THD)	220 W
Input sensitivity	
AUX	250 mV
Input impedance	47 k Ω

■ FM TUNER SECTION

Frequency range	87.9 - 107.9 MHz (200-kHz step)
	87.5 - 108.0 MHz (100-kHz step)
Sensitivity	2.5 μ V (IHF)
S/N 26 dB	2.2 μ V
Antenna terminals	75 Ω (unbalanced)
Preset station	15

■ AM TUNER SECTION

Frequency range	520 -1710 kHz (10-kHz step)
AM Sensitivity S/N 20 dB at 1000 kHz	560 μ V/m
Preset station	15

■ DISC SECTION

Disc played	(one layer per side)
DVD-VIDEO/AUDIO	8 cm/12 cm, single/double-sided, single/double layer
CD/VCD/MP3/WMA	8 cm/12 cm, CD-R/RW
DVD-RAM/R (DVD-VIDEO formatted discs)	
HighMAT	Level 2 (Audio and Image)
Video	
Signal system	NTSC
Output level	Composite video; 1 Vp-p (75 Ω)
	S-video; 1 Vp-p (Y), 0.286 Vp-p (C) (75 Ω)
	Componenet video; 1 Vp-p (Y) (75 Ω)
	0.7 Vp-p (PB/CB, PR/CR) (75 Ω)
Audio	
Sampling frequency	
CD	44.1 kHz

MP3	**32 kHz, 44.1 kHz, 48 kHz**
DVD	**48 kHz, 96 kHz (video), 192 kHz (audio)**
Bitrate	
MP3	**32-320 kbps**
Decoding	**16/20/24 bit linear**
Pick up	
Beam Source	**Semiconductor Laser**
Wavelength	
CD/VCD	**780 nm**
DVD	**658 nm**
Number of channels	**5.1 ch (FL, FR, SL, SR, C, SW)**
Frequency response	**20 Hz - 20 kHz (+1, -2 dB)**
Wow and flutter	**Less than possible measurement data**
Digital filter	**8 fs**
D/A converter	**Delta signal DAC**

■ **VCR SECTION**

Video recording system	**2 rotary heads, helical scanning system**
Video heads	**4 heads**
Audio heads	**2 heads**
Tape speed	**SP; 33.35 mm/s, EP; 11.12 mm/s**
Tape format	**VHS tape**
Recording/playback time	**SP; 120 min. with NV-T120**
	EP; 360 min. with NV-T120
FF/REW time	**Approx. 54 s. with NV-T120 (FF/REW)**
	Approx. 36 s. with NV-T120 (JET REW)

VIDEO

Television system	**EIA; Standard (525 lines, 60 fields), NTSC color signal**
Modulation system	**Luminance; FM azimuth recording**
	Color signal; converted subcarrier phase shift recording
Input level	**VIDEO IN (PHONE); 1 Vp-p, 75 Ω**
Output level	**VIDEO OUT (PHONE); 1 Vp-p, 75 Ω**
Antenna receive input	**VHF 2-13 CH, 75 Ω**
	UHF 14-69 CH, 75 Ω
	CATV 5A and A-5-EEE CH, 75 Ω

AUDIO

Input level	**AUDIO IN (PHONO); -10 dBV, 47 k Ω**
Output level	**AUDIO OUT (PHONO); -8 dBV, 1 k Ω**
Audio track	**1 track (normal-mono only), 2 channels (Hi-Fi sound stereo)**

Video horizontal resolution	Color; more than 200 lines
Signal-to-Noise ratio	Video; more than 40 dB/SP
	Audio; more than 60 dB/Hi-Fi
Audio frequency response	20 Hz-20 kHz/Hi-Fi
Wow and flutter	0.005 % Wrms/Hi-Fi

■ GENERAL

Power supply	AC 120 V, 60Hz
Power consumption	
Main unit	38 W
Active subwoofer (SB-WA310)	160 W
Dimensions (W x H x D)	430 x 93 x 356 mm
	(16-15/16" x 3-21/32" x 14-1/32")
Mass	4.6 kg (10.1 lb.)
Power consumption in standby mode	
BRIGHT mode	Approx. 3.7 W
DIM mode	Approx. 3.5 W
OFF mode	Approx. 2.4 W

■ SYSTEM

SC-HT800V (P)	Main unit: SA-HT800V (P)
	Satellie speaker: SB-HT800V (P)
	Active subwoofer: SB-WA310 (P)
SB-HT800V (P) consists of	SB-FS803 (P) x 4 and SB-PC803 (P) x 1

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

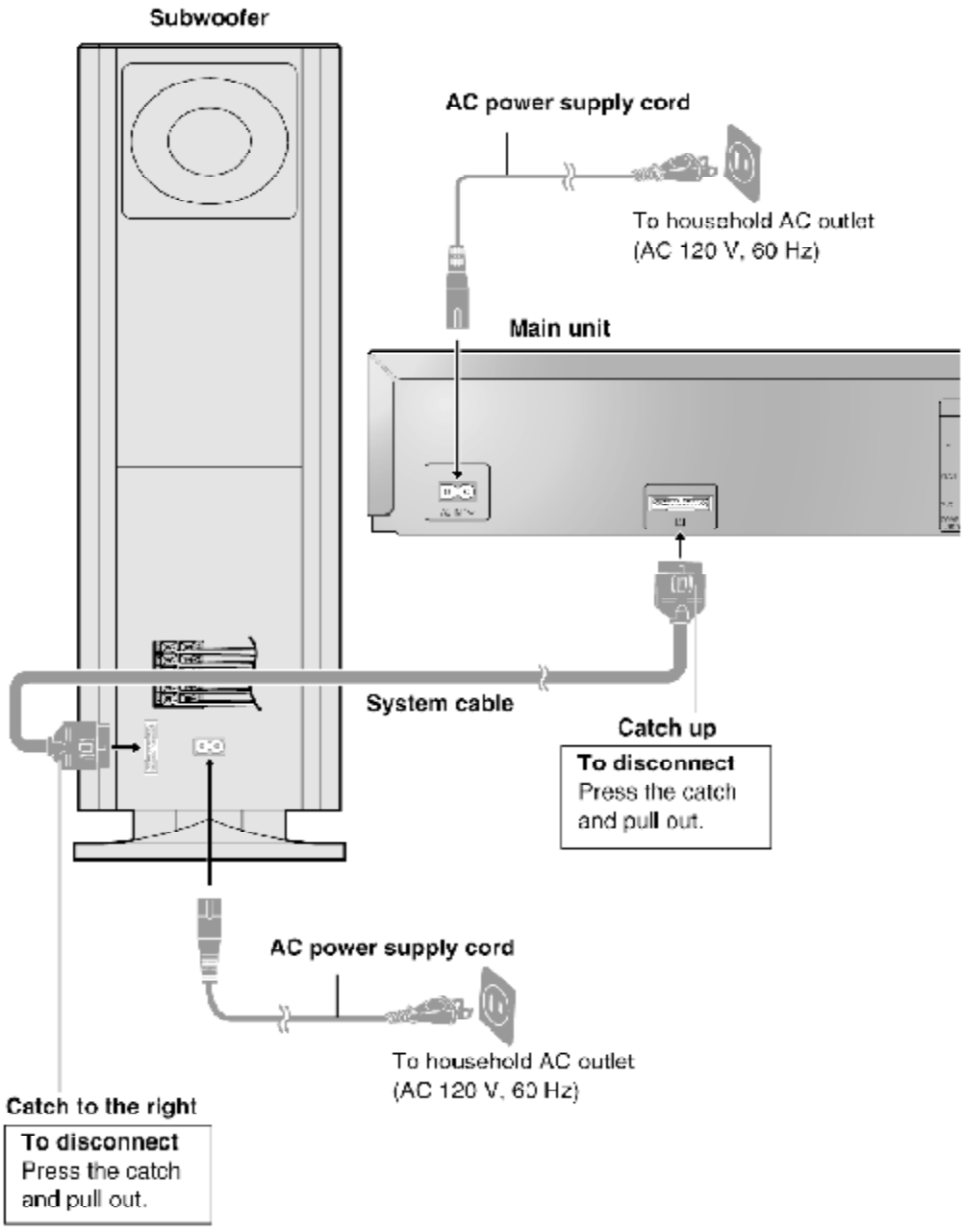
1. Powering Up of the Main Unit

1.1. Checking Player with Active Subwoofer

1. This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.

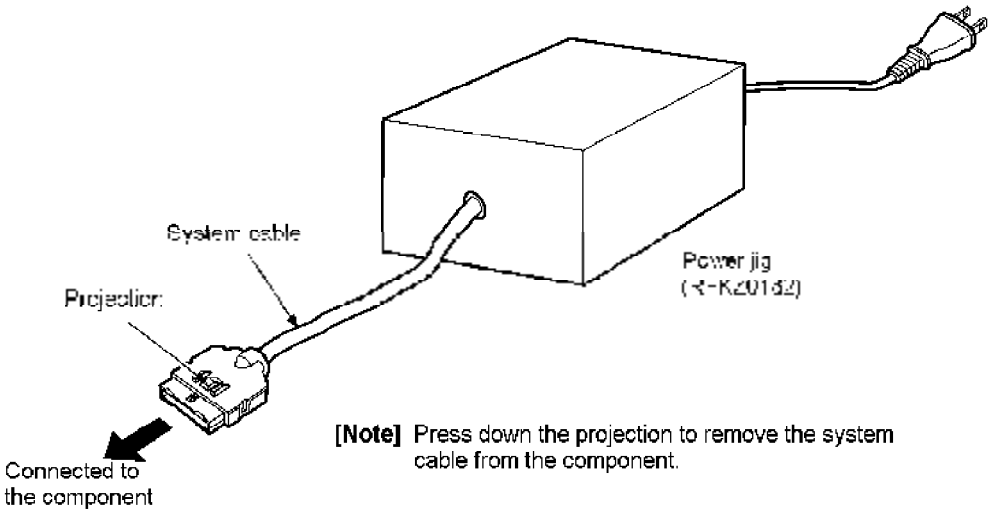
2. Connect both AC power supply cords to enjoy all the features of this system. / This speakers and tuner will not work unless you connect the subwoofer to a household AC outlet.

Connect the AC power supply cord after all other connections are complete.



1.2. Using of Power Jig

1. If the active subwoofer is not available due to repair of the unit, use the following equipment.



Jig product number
RFKZ0182 (110V , 127V, 220V, 230V - 240V for for overseas domestic use)

2. Before Repair and Adjustment (Using Active Subwoofer Unit)

Disconnect AC power, discharge Power Supply Capacitors C546 , C547, C548 & C549 through a 10 Ω, 1W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 120V, 60Hz in NO SIGNAL mode should be ~1000 mA .

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlines below:

1. Switch OFF the power.

2. Determine the cause of the problem and correct it.

3. Switch ON the power once again.

Note :
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

4. Safety Precautions

4.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

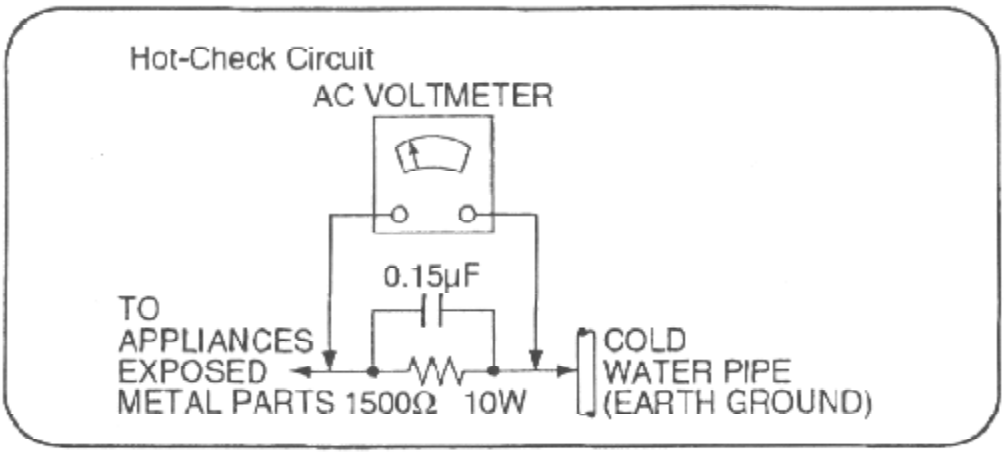
(This “Safety Precaution” is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer’s recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

4.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Fig. 1



4.1.2. Leakage Current Hot Check (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder;

Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).

- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically**

shorted together by conductive foam, aluminium foil or comparable conductive material).

7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

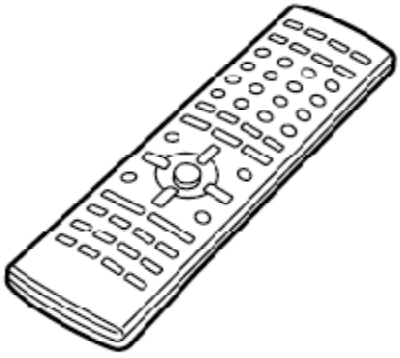
8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

IMPORTANT SAFETY NOTICE

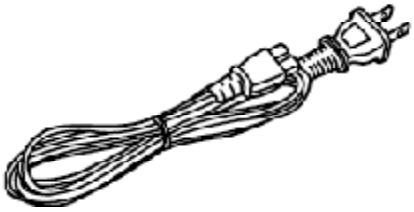
There are special components used in this equipment which are important for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

7. Accessories

Remote control



AC power supply cord

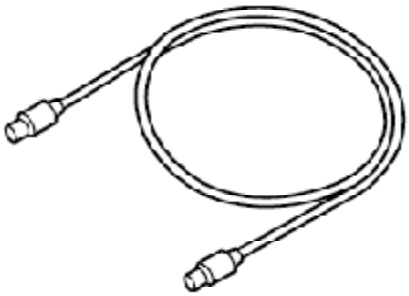


AM loop antenna

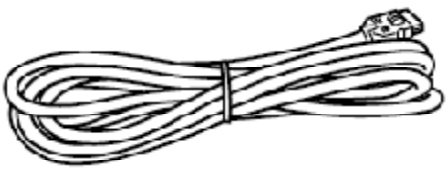
FM indoor antenna

Video cables

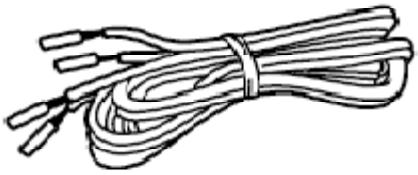
75 Ω coaxial cable



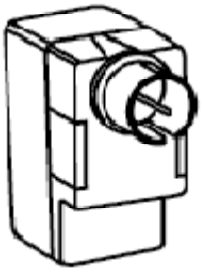
System cable



Speaker cables



Antenna plug



8. Precaution of Laser Diode

CAUTION :

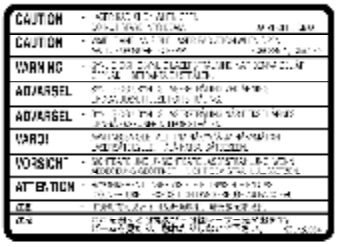
This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 658nm(DVD)/780nm(VCD/CD).
Maximum output radiation power from pickup: 100 μ W/VDE
When the unit is turned on :

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THC SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ **Use of Caution Labels**



(Ins de of product)

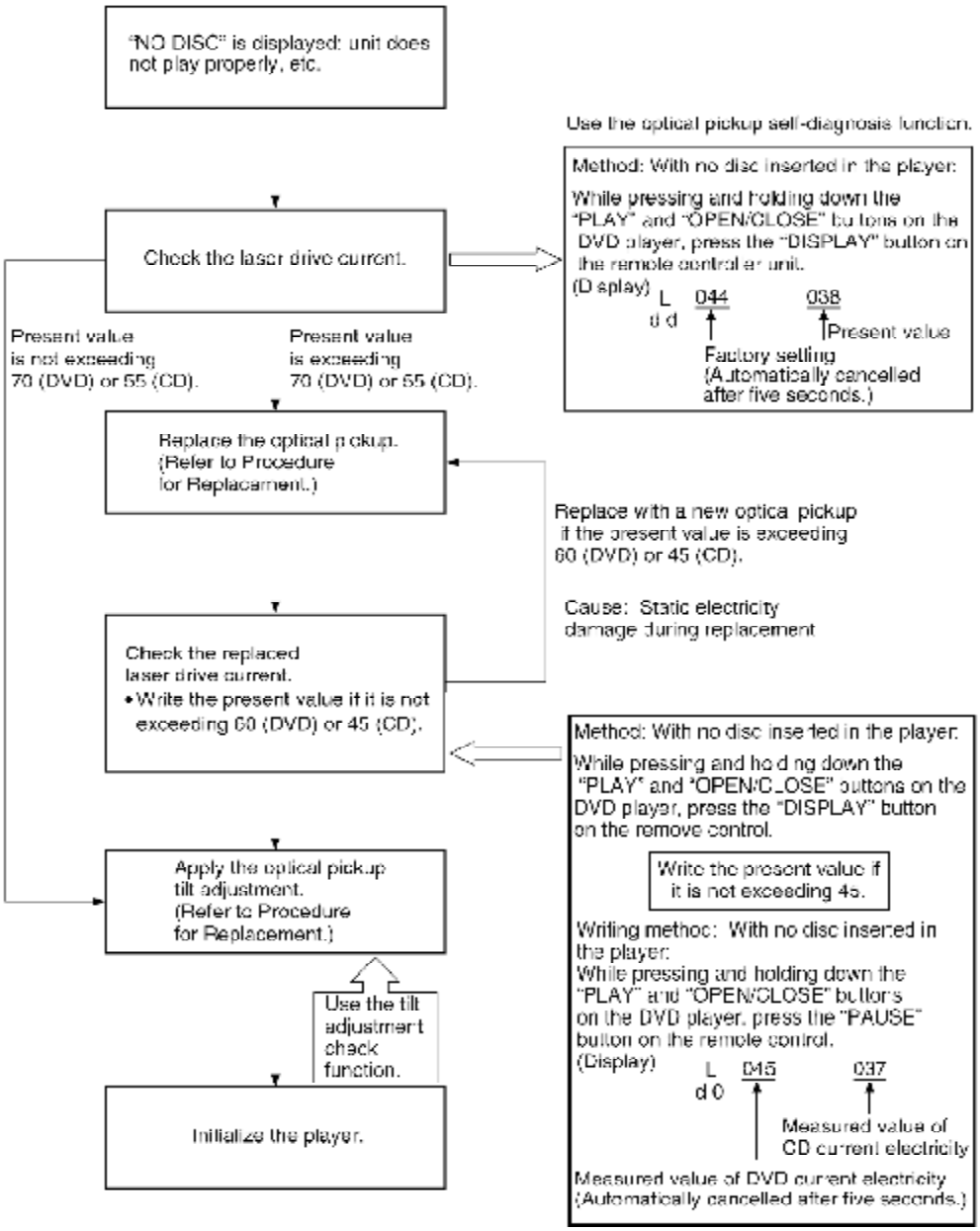
9. Optical Pickup Self-Diagnosis and Replacement Procedure (DVD Section)

9.1. Self-diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when "NO DISC" is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 55.

Note:

Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).


"NO DISC" is displayed: unit does not play properly, etc.
Use the optical pickup self-diagnosis function.
Method: With no disc inserted in the player:
While pressing and holding down the "PLAY" and "OPEN/CLOSE" buttons on the DVD player, press the "DISPLAY" button on the remote control unit.
(Display) L d d 044 038
Present value
Factory setting (Automatically cancelled after five seconds.)
Check the laser drive current.
Present value is not exceeding 70 (DVD) or 55 (CD).
Present value is exceeding 70 (DVD) or 55 (CD).
Replace the optical pickup. (Refer to Procedure for Replacement.)
Replace with a new optical pickup if the present value is exceeding 60 (DVD) or 45 (CD).
Cause: Static electricity damage during replacement
Check the replaced laser drive current.
• Write the present value if it is not exceeding 60 (DVD) or 45 (CD).
Method: With no disc inserted in the player:
While pressing and holding down the "PLAY" and "OPEN/CLOSE" buttons on the DVD player, press the "DISPLAY" button on the remove control.
Write the present value if it is not exceeding 45.
Writing method: With no disc inserted in the player:
While pressing and holding down the "PLAY" and "OPEN/CLOSE" buttons on the DVD player, press the "PAUSE" button on the remote control.
(Display) L d 0 045 037
Measured value of CD current electricity
Measured value of DVD current electricity
(Automatically cancelled after five seconds.)
Apply the optical pickup tilt adjustment. (Refer to Procedure for Replacement.)
Use the tilt adjustment check function.
Initialize the player.

9.2. Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor Assembly

Before replacing the optical pickup and spindle motor assembly, check a usage time respectively. Follow the checking method described below.

	Status and Key Function	Display
Checking CD laser usage time	With the unit stopped, press the "PLAY" button on the DVD player, the "FORWARD" button on VTR and the number "5" button on the remote controller unit at the same time.	10 XX XX YYYY yyyy = total time is displa four-digit number by the t
Checking DVD laser usage time	With the unit stopped, press the "PLAY" button on the DVD player, the "FORWARD" button on VTR and the number "5" button on the remote controller unit at the same time.	10 XX XX YYYY xxxx = total time is displa four-digit number by the t
Checking SP motor usage time	With the unit stopped, press the "PLAY" button on the DVD player, the "FORWARD" button on VTR and the number "6" button on the remote controller unit at the same time.	T2_xxxx xxxx = total time is displa four-digit number by the t
Resetting each usage time of DVD and CD lasers (simultaneous resetting) (Apply this operation before laser usage time checking mode is cancelled.)	While the unit stopped, press the "STOP" button on the DVD player, the "FORWARD" button on VTR and the number "5" button on the remote controller unit at the same time.	10 XX 00 0000
Resetting SP motor usage time (Apply this operation before SP motor usage time checking mode is cancelled.)	While the unit stopped, press the "STOP" button on the DVD player, the "FORWARD" button on VTR and the number "6" button on the remote controller unit at the same time.	T2_0000

9.2.1. Cautions to be taken during replacement of optical pickup

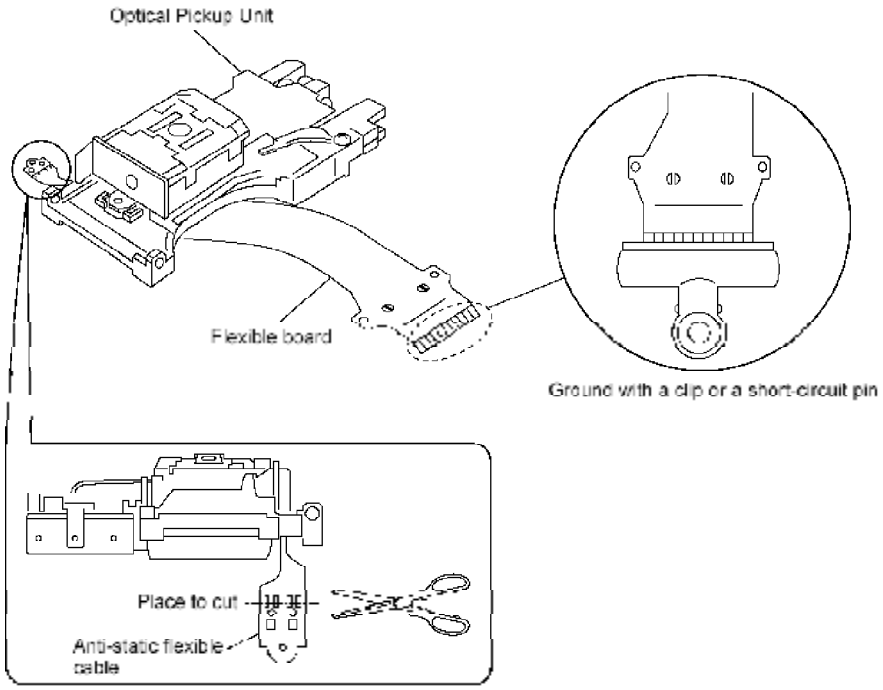
Optical pickup could be damaged due to the static electricity discharged from human body. Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to the section regarding protection against static electricity.)

1. **Do not touch laser diode, actuator and their peripherals.**
2. **Do not check laser diode with a tester and such. (The tester will be destroyed.)**
3. **For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. / (Recommended model: HAKKO ESD product)**
4. **Solder the land of the flexible cable in the optical pickup.**

Note:

- If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.

- For short-circuit of the above laser diode, remove soldering as instructed in this manual after completing repair.



10. Self-Diagnosis Function and Service Mode

10.1. Self-Diagnosis Function (VTR Section)

10.1.1. Sef-Diagnosis Display

<Overview>

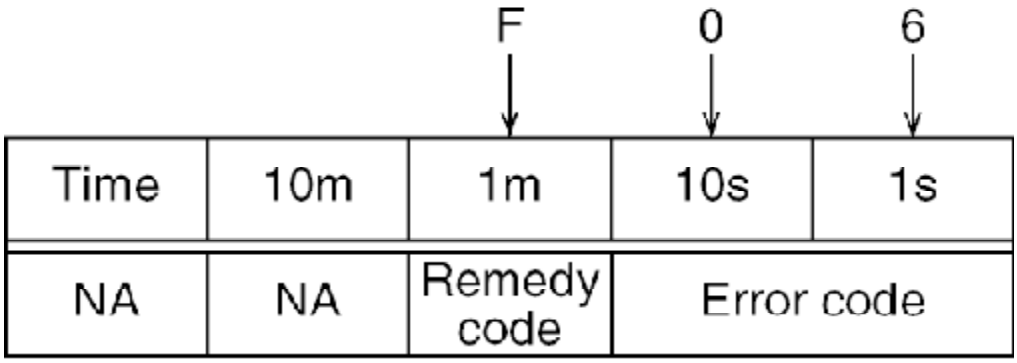
The details of failures detected in circuit or mechanism by the microcomputer will be automatically displayed on the FIP as the result of self diagnosis.

<Setting>

The details of a failure applicable to an error code are displayed on the minute, ten seconds, one second position of the FIP.

<Display>

FIP display example:



<List of Remedy Code>

Remedy code	Remedy
U	User manageable
H	Should be managed by distributor
F	Should be managed at servicing center

<List of Error Code>

Display	Meaning	Automatic display	Memory
U11	Detection of head clogging-ups	O	O
U30	Remote controller mode error	O	X
H01	No initialization of cylinder due to no loading(Cylinder, driving circuit failure, etc.)	O	O
H02	No capstan FG at load position(Capstan, driving circuit failure, etc.)	O	O
F03	Mechanism locking not because of unloading, cassette up* Displayed when detected twice consecutively.	O	O
F04	Mechanism locking due to unloading* Displayed when detected twice consecutively.	O	O
F05	No S-reel pulse due to unloading(S-reel system, capstan system failure)	X	O
F06	Mechanism locking due to cassette up	O	O
F07	Recording circuit operation failure during REC operation	O	O
F08	Recording circuit operation failure not during REC operation	O	O

Display	Meaning	Automatic display	Memory
F15	No capstan FG when cassette is loaded(Capstan system, S-reel system failure)	X	O
H16	Cylinder lock detected during normal rotation	X	O
H17	S-reel lock detected during normal running	O	O
H18	T-reel lock detected during normal running	O	O
H80	EJECT mode when an error is detected	X	O
F2*	Error during PG automatic adjustment	O	O

10.1.2. Service Mode

<Service Mode and Service Data>

Number	Details	Meaning at Minute Position (Service Data 1)	Meaning of Second Position (Service Data 2)	
0	Service data	VCR mode (real time)	Processing number (real time)	
		Deck mode	Treatment during mechanism transition Control number	
1	Service data	Starting/End terminal detect information	Reception key information	Dis onl the rec key is (
		00 : Detection of neither starting or end terminal 01 : Detecting starting terminal 02 : Detecting end terminal 03 : Detecting both starting and end terminals	When the unit key or remote controller unit is used, the reception code is displayed.	
2	Service data	Mechanical position (real time)	Motor command (real time)	Be the me ope ava wit tap mo acc sta ter det No det No jud tap and pos det
		0L : EJECT position 02 : DOWN positions 03 : R-REW positions 04 : LOAD positions 05 : REV positions 06 : PLAY positions 07 : POFF positions 08 : STOP positions 09 : STOP positions 0- : FFREW positions 0_ : Middle of positions	0*, 2* : CYL off Cap off 1* : CYL off Cap on (fwd) 3* : CYL off Cap ON (rev) 8*, U* : CYL on Cap off 9* : CYL on Cap on (fwd) A* : CYL on Cap ON (rev) *0 : Moter off *1 : Loading *2 : Un Loading *3 : Break (Load + Unload)	

Number	Details	Meaning at Minute Position (Service Data 1)	Meaning of Second Position (Service Data 2)	
3	Self diagnosis history (1st time)	Error code of History 1	Additional information 1 and 2 of History 1	
4	Self diagnosis history (2nd time)	Error code of History 2	Additional information 1 and 2 of History 2	
5	Self diagnosis history (3rd time)	Error code of History 3	Additional information 1 and 2 of History 3	
6	Service data	Cylinder ON command	Cap motor ON/OFF and forward/reverse rotation command	Sa det nu as of ser mo
7	Manual operation	Real timeMechanical position	Real timeMotor command	PL but loa dir ST but Un dir
		Same as the details of Service 2	Same as the details of Service 2	

10.1.3. Service Mode Display

<Overview>
A part of the microcomputer internal information is displayed on the FIP in order to ease servicing during sales.

<Setting>
Press and hold down the FF and EJECT buttons for at least three seconds to enter the service mode. As this operation is repeated, service number changes starting at 0 up to 7, and then counter (clock) is displayed.

<Display>
FIP display example:

4	0	5	1	2
Time	10m	1m	10s	1s
Service number	Service Data 1		Service Data 2	

10.1.4. Self-Diagnosis History Memory Function

<Memory Setting of Self-Diagnosis History>

1. **Memorizes the self-diagnosis result and the additional data at the moment when an error is detected.**
2. **History is numbered up to three. The latest error always appears first, shifting the old ones as two and three.**
3. **Other data that cannot be fit within three histories are discarded.**
4. **The same error is not memorized.**

<Resetting Self-Diagnosis History>
Press and hold down the FF and EJECT keys at the same time at least 5 seconds to reset the data. (Be sure to apply this operation after repair.)

<Display of Self-Diagnosis History>
The self-diagnosis history and additional data will be displayed on the FIP, using numbers 3 to 5 of the service mode.

FIP display example:

Time	10m	1m	10s	1s
Service number	Error Code		Additional Data	
3	Error Code of history 1		Additional data 1 of history 1	Additional data 2 of history 1
4	Error Code of history 2		Additional data 1 of history 2	Additional data 2 of history 2
5	Error Code of history 3		Additional data 1 of history 3	Additional data 2 of history 3

By selecting 3, 4 or 5 of the service mode, error code and additional data of history 1, history 2, and history 3 are displayed respectively.

When no error code is memorized, "-" will appear as error code and additional data.

10.1.5. Self-Diagnosis History Memory

<Overview>
The self-diagnosis history memory function stores up to three errors historically, which of each occurs consecutively, and also additional data such as deck mode and mechanism position along with error code for the purpose of speedy solution of a problem.

<Error code and additional data>
Following table shows additional data applicable to error code.

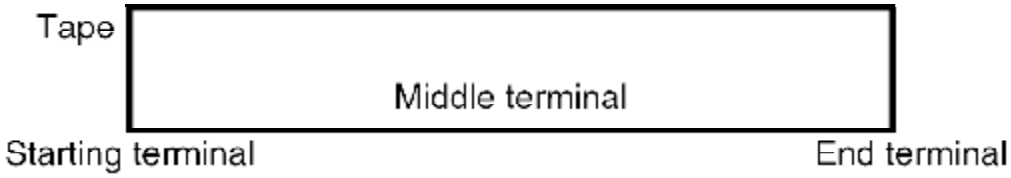
Error code	Meaning	Additional data			
		Data 1	Data 2	Data 3	
01	No initialization of cylinder due to no loading (Cylinder, driving circuit failure, etc.)	VCR mode	-	Tape position	
02	No capstan FG at load position (Capstan, driving circuit, etc. failure)	VCR mode	-	Tape position	F
03	Mechanism locking not because of unloading, cassette up	VCR mode	Standby position	Tape position	inf
04	Mechanism locking due to unloading	VCR mode	-	Tape position	inf
05	No S-reel pulse due to unloading (S-reel system, capstan system failure)	VCR mode	Tape position	Tape position	inf
06	Mechanism locking due to cassette up	VCR mode	Standby position	Tape position	inf
07	Recording circuit operation failure during REC operation	VCR mode	-	Tape position	
08	Recording circuit operation failure not during REC operation	VCR mode	-	Tape position	
11	Detection of head clogging-ups	VCR mode	-	Tape position	
15	No S-reel pulse when cassette is loaded (Capstan system, S-reel system failure)	VCR mode	S-reel pulse counting value	Tape position	
16	Cylinder lock detected during normal rotation	VCR mode	Processing number	Tape position	
17	S-reel lock detected during normal running	VCR mode	Processing number	Tape position	F
18	T-reel lock detected during normal running	VCR mode	Processing number	Tape position	F
80	EJECT mode when an error is detected	VCR mode	*1	Tape position	
2*	Error during PG automatic adjustment	VCR mode	-	Tape position	

<Meaning of Additional data, (Data 1), VCR mode)

0 : STOP, 1 : EJECT, 2 : REW 3 : FF, 4 : REV, 5 : CUE, 6 : SLOW 7 : POWER OFF, 8 : PLAY, 9 : STILL, U : REC, A : REC PAUSE, - : ADUB, N : ADUB PAUSE, L : INSERT, NONE DISPLAYED : INSERT PAUSE

<Meaning of Additional data, (Data 2), Tape position)

Type of tape	Criterion of tape position between starting and end terminals
T-90 or above (Thin Hub)	Between starting terminal: L and end terminal: 1 with fourteen levels of change
T-60 or below (Thick Hub)	Between starting terminal: U and end terminal: 5 with sic levels of change



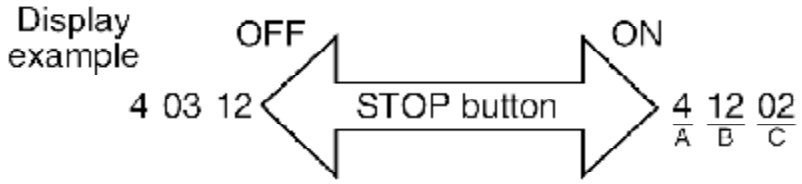
<Data 2 display>

Thin Hub	L n -- A u 9 8 7 6 5 4 3 2 1
Thick Hub	U 9 8 7 6 5

***1 <Additional data, (Data 2)> (EJECT reason)**

Data 2	Reason
1	Loading completed when no tape is loaded. (spinning)
2	S-photo, S-reel, or Cap system failure during down short REW operation
3	Mechanism locking during loading
4	L both terminals detected when loading starts

***Additional data 3 and 4**
While the self-diagnosis history is displayed, press the STOP button (on the unit or the remote controller unit) to switch between Additional data 3 and 4.



A : Service mode number
B : Additional data 3...mechanical processing transition NO
C : Additional data 4...LM (Loading Motor) information

4 12 02
(Meaning) : When EJECT button is pressed, the loading motor is turned on but a problem occurs during transition from REV through LOAD.

<Additional data 3> (Mechanical process transition NO)

(EJECT)	(P ON)
10 : PLAY → REV passing11 : REV passing12 : REV passing → LOAD (Capstan stop)13 : LOAD → DOWN14 : DOWN → EJECT15 : EJECT completed	None displayed: Power ON treatment
	(P OFF)
	70 : PLAY → P OFF
(FF)	(REW)
U0 : PLAY → STOP FU1 : STOP F → FFU2 : FF initialization	A0 : PLAY → STOP FA1 : STOP F → REWA2 : REW initialization
(PLAY)	(STILL)
20 : Cylinder initialization, phase drawing21 : Audio mute, W switch	40 : Forward rotation, REC signal off41 : Speed 0, Capstan Off
(REC)	(STILL → PLAY)
30 : Cylinder initialization, phase drawing31 : REC signal output	48 : Tape forwarding
(CUE → PLAY)	(REV)
4A : End terminal check, tape forwarding4- : PLAY check, tape forwarding	80 : PLAY → P OFF81 : Rewind82 : P OFF → REV
(CUE)	
49 : Double speed forwarding, remaining computation jump	

<Additional data 4> (LM information)
By loading motor driving request
No change in mechanical position: 1 (loading motor OFF)
Some change in mechanical position: 2 (loading motor ON)

10.2. Self-Diagnosis Function (DVD Section)

10.2.1. Self-Diagnosis Display

<Overview>
The details of failures detected in circuit or mechanism by the microcomputer will be automatically displayed on the FIP as the result of self diagnosis.

<Setting>
The details of a failure applicable to an error code are displayed on the FIP.

<Display>
FIP display example: F 0 4

<List of Error Code>

Display	Type of error	Meaning
U 11	Focus error	
H 01	Tray loading error	
H 02	Spindle servo error	Spindle servo, DSC, SP motor, CLV servo error
F 03	Traverse servo error	
F 04	Tracking servo error	
F 05	Seek error	
F 06	Power supply error	Power cannot be turned off due to communication error between panel computer and system computer.

10.2.2. Error Code Display

While pressing and holding down the PLAY and OPEN keys on the DVD layer, press the number "0" in order to display the latest error code. (Automatically cancelled after five seconds.)

<Error Code Display>

Section	Code	Meaning	Note
Disc code	F103	Illegal Highlight Position	Possibility of illegal disc when hi is displayed
Decoder related	F220	Y level adjustment failure	Brightness signal level adjustme cannot be properly operated
	F221	C level adjustment failure	Color signal level adjustment ca properly operated
II C error	F4FF	Compulsory initialization failure (time out)	
DSC related	F500	DSC error	DSC stops due to servo failure. (focus failure, etc.)
	F501	DSC not ready	Communication failure between system computer(No communic because DSC does not move)
	F502	DSC time out failure	See F500.
	F503	DSC communication failure	Communication failure (Result fa occurs after communication con transmitted.)
	F504	Data slice offset adjustment failure	Not in use. (FEP error)
	F505	DSC Attention Error	See F500.
	F506	Invalid media	Disc is placed upside down; TOC unreadable or invalid disc is inse
ODC related	F600	Control information unattainable due to demodulation error	Operation stops because naviga data cannot be obtained due to demodulation system failure.
	F601	Unknown sector ID requested	Operation stops because access illegal ID data is requested.
	F602	LEAD-IN unattainable due to demodulation error	Unable to read LEAD IN data
	F603	KEYDET unattainable due to demodulation error	Unable to obtain CSS data
	F610	ODC failure	No permission of command issu
	F611	6626 QCODE don't read ERROR	Unable to obtain seek address a system
	F612	No CRC OK during a certain time of duration	Unable to obtain ID data at DVD s
	F630	No response to KEY DET makeshift	(Internal use)
	F631	CPPM KEY DET unavailable to FILE end terminal	CPPM fail system cannot be read scratch.
	F632	CPPM KEY DET unavailable	Revoke or altered.

Section	Code	Meaning	Note
Microcomputer error	F700	MBX overflow	When replying a message to Dis Manager. (operation continues)
	F701	Message command incomplete	A message is issued before repl Disc Manager.
	F702	Message command changed	A message is issued before repl Disc Manager.
	F710	AD conversion at AN0 incomplete	Conversion cannot be complete designated time during check of conversion before Y/C automatic adjustment.
	F711	AD conversion at AN1 incomplete	Conversion cannot be complete designated time during check of conversion before Y/C automatic adjustment.
	F712	AD conversion at AN0 dispersed	Conversion result exceeds stand while a designated value is set d check of AD conversion before Y automatic adjustment.
	F713	AD conversion at AN1 dispersed	Conversion result exceeds stand while a designated value is set d check of AD conversion before Y automatic adjustment.
	F720	DA conversion at AN0 unchangeable	Conversion result exceeds stand while a designated value is set d check of AD conversion before Y automatic adjustment.
	F721	DA conversion at AN1 unchangeable	Conversion result exceeds stand while a designated value is set d check of AD conversion before Y automatic adjustment.
	F880	Unsuitable task number	When a message arrives from no existing task (error stops)
	F890	A message is sent during AV task transmission	During transmission of a messag task (error stops)
	F891	Unable to transmit a message to AV task	When a message starts transmis AV task (error stops)
	F893	FROM altered	
	F894	EEPROM failure	
	F895	PERR JMP MI SMUCH	Firm device incompatible (non-conformant destination value)
	F896	PERR JMP NON	Firm device incompatible (non ex jumper)
	F897	PERR NO INIT	Initialization incomplete
	F8A0	Unsuitable message command	When a message starts transmis AV task (error stops)

10.3. Self-Diagnosis Function and Service Mode

Improvement of Self-Diagnosis FunctionPrevious self-diagnosis function of DVD pla yer has been improved as follows:

Existing type	New type	
UHF error display Latest error memory function n=1	UHF error display Latest error memory function n=20	Memory storage upgraded
Jitter/read error display	Jitter read error display Focus driving value display	Displays current electricity level of focus driving
Laser current electricity display for use of DVD	Laser current electricity display for use of DVD and CD	
	ADSC internal RAM display	Displays servo learning value stored inside ADSC (servo controller) IC RAM
	Servo process display	Displays an initialization process assigned to each servo process number for the steps taken especially during initialization of player boot.
	Total usage time display SP motor Laser (DVD/CD)	Displays usage time of each SP motor and laser (DVD/CD).

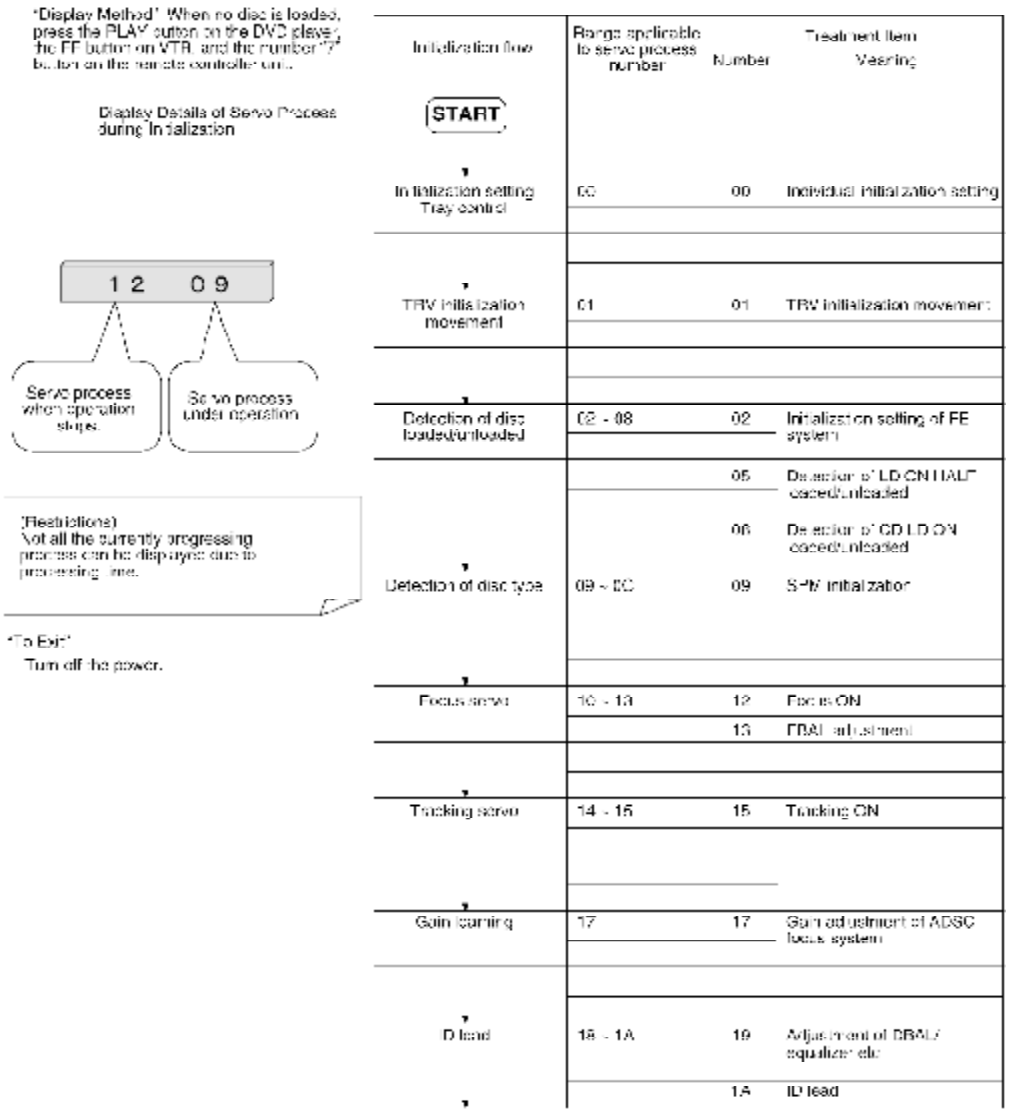
10.4. Mode Table

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	To Exit Mode
Jitter display	While the DVD player is playing, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the number "5" button on the remote controller unit.	Jitter display Measures and displays jitter value. Measurement is repeated every second. If read error occurs, starts at 0 at the mode setting, and increases by one as data read fails at target block.	J 081 001 Measured jitter value Region number	Press the STOP or OPEN/CLOSE button.
Error code display	During "" mode, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the number "0" button on the remote controller unit. * By moving up and down the displayed cursor, panel computer changes recent number and re-issues a command.	Error code display Displays the latest error code stored in EEPROM	* Refer to the section regarding error code display.	Automatically cancelled after five seconds.
Laser driving current electricity level writing	While no disc is loaded, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the PAUSE button on the remote controller unit.	Writes laser driving current electricity level. Stores each initialization value of DVD and CD in EEPROM	d 0 042 054 Measured DVD current electricity value Measured CD current electricity value The above example shows that the initial current electricity level is 40mA for DVD laser and 24mA for CD laser when laser is turned on.	Automatically cancelled after five seconds.
Measurement of DVD laser current electricity	While no disc is loaded, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the DISPLAY button on the remote controller unit.	Measurement of DVD laser current electricity. Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, "DVD laser is L" till the power is turned off.	L 043 038 d d Current electricity initialization value stored in EEPROM Present current electricity The above example shows that the current electricity initialization value is 43mA when laser is turned on.	Automatically cancelled after five seconds.
ADSC internal RAM display	During "" mode, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the RETURN on the remote controller unit.	ADSC internal RAM display. Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	A1 140 200 Address RAM value at displayed address	Press the STOP or OPEN/CLOSE button.

Item	Operational Condition and Key Function	Details	Display	To Exit Mode
Servo process display	While no disc is inserted, press and hold down the PLAY button on the DVD player and the FORWARD button on VTR and the number "7" button on the remote controller unit.	Servo process display Displays the servo process from stop to access.	"Refer to the servo process flowchart.	Turn off the power.
Measurement of CD laser current electricity	While no disc is loaded, press and hold down the PLAY button on the DVD player, the FORWARD button on VTR and the DISPLAY button on the remote controller.	Measurement of CD laser current electricity Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off.	LD OP: 96 04 • • Present current electricity value. Current electricity initialization value stored in EEPROM	Automatically cancelled after five seconds.
Version display	While no disc is loaded, press the PLAY and OPEN/CLOSE buttons on the DVD player and the number "7" button on the remote controller unit.	Version display	27 21 85 C 135 • • Generation Type of device Release number	Automatically cancelled after five seconds.
FL all lit	During "I" mode, press the PLAY and OPEN/CLOSE buttons on the DVD player and the number "8" button on the remote controller unit.	FL all lit	Check the all FL are lit.	Turn off the power.
Dealers lock	When no disc is loaded, press the STOP button on the DVD player and the POWER button on the remote controller unit.	Dealers lock Switches ON/OFF. During dealers lock mode, they cannot be opened when the power is turned off.	"LOCKED" is displayed when the power is off and the tray is opened during dealers lock is activated.	Press the same buttons used for activation in the same manner.
User initialization	When no disc is loaded, press and hold down the PLAY and OPEN/CLOSE buttons on the DVD player and the REWIND button on VTR for at least three seconds.	User initialization The user setting recovers the factory setting.	(INITIALIZED)	None
Region display	When no disc is loaded, press the PLAY and OPEN/CLOSE buttons on the DVD player and the number "8" button on the remote controller unit.	Region display	2 N N 242 Operation computer jumper information N : NTSC, P : PAL/SECAM N : non PAL P : PAL Read error counter value	Automatically cancelled after five seconds.
CD/DVD laser usage time check	When no disc is loaded, press the PLAY button on the DVD player, the FF button on VTR and the number "5" button on the remote controller unit.	CD/DVD laser usage time check Measures a time for CD and DVD respectively.	10 00 016 028 1 CD laser time DVD laser time	Automatically cancelled after five seconds.
CD/DVD laser usage time reset	When no disc is loaded, press the PLAY button on the DVD player, the FF button on VTR and the number "5" button on the remote controller unit. "Do" during showing the time of the laser using.	CD/DVD laser usage time reset Resets usage times of CD/DVD simultaneously.	10 00 000 000	Automatically cancelled after five seconds.
SP motor usage time check	When no disc is loaded, press the PLAY button on the DVD player, the FF button on VTR and the number "6" button on the remote controller unit.	Checks SP motor usage time.	12 1234 SP motor usage time	Automatically cancelled after five seconds.
SP motor usage time reset	When no disc is loaded, press the STOP button on the DVD player, the FF button on VTR, and the number "6" button on the remote controller unit. Press all the buttons while SP motor usage time is displayed.	Resets SP motor usage time.	12 0000	Automatically cancelled after five seconds.

10.5. Servo Process Flowchart



10.6. Servo Process Display Mode

Each step can be monitored by a number assigned to each servo process during player initialization.Following table shows each process applicable to displayed numbers.

Number Assigned to Servo Process

Processing Type	Processing Item	Details	Proce nur
Initialization	Initialization	Operated after tray is loaded. (Transit to READY or PREPARE mode.)	0 -
	Secondary learning	Performs servo learning for L1 layer of DVD-DL and 1 single speed of CD-DA.	50 ~ 7
Re-initialization	Re-initialization	Each servo is turned on at READY mode by user.	80
Seek	Seek	Optical pickup is moved to a designated position on the disc.	A0
Recovery	Recovery		
	(Error check)	Search during PLAY/SEEK mode	C0
	(Action)	Error recovery according to attention error interruption sent from S-ODC.	C5
	(Q-code read)	Reset and retry when Q-code cannot be read.	CA
Stop	Stop	Disc operation completely stops as servo down according to user's operation.	F0

10.7. ADSC internal RAM display

Displays servo learning values of ADSC internal RAM as servo processor.Used for judging the quality of servo operation, disc, and OPU.Followings are commonly displayed addresses:

Address	Meaning
4B4	Focus gain learning value of DVD-S, DVD-D (LO), CD and VCD
4BC	Focus gain learning value of DVD-D (L1)
4B6	Focus balance learning value of DVD-S, DVD-D (LO), CD and VCD
4BE	Focus balance learning value of DVD-D (L1)
4B5	Tracking gain learning value of DVD-S, DVD-D (LO), CD and VCD
4BD	Tracking gain learning value of DVD-D (L1)
TB0	Tracking balance learning value of DVD-S, DVD-D (LO), CD and VCD
TB1	Tracking balance learning value of DVD-D (L1)
DBD	DSL offset learning value of DVD-S and DVD-D
DBC	DSL offset learning value of CD and VCD
FC0	Equalizer FC value of DVD-S, DVD-D (LO), CD and VCD
BT0	Equalizer BOOST value of DVD-S, DVD-D (LO), CD and VCD
FC1	Equalizer FC value of DVD-D (L1)
BT1	Equalizer BOOST value of DVD-D (L1)

10.8. Lock Function

This function prohibits removal of disc and some disc operations to prevent loss of disc at a shop during sales promotion or equivalent occasions. While this function is activated, the player displays "LOCKED" if any button is touched.

10.8.1. Setting

While pressing and holding down the "STOP" key on the unit, press the POWER button on the remote controller unit to activate. (The message, "LOCKED" appears when the function is activated.)

10.8.2. Exiting Lock Function

While the lock function is activated, press the buttons which are used to enter the mode in the same manner. (When the lock function is deactivated, the message, "UNLOCKED" appears.) (This function cannot be cancelled even when the power is turned off.)

10.9. Cautions To Be Taken During Servicing

10.9.1. Recovery Process after Repair of DVD Player

When module P board and/or FROM, EEPROM, etc. inside module P board, apply the recovery operation in order to optimize the new drive. Use the following disc so that the operation starts automatically.
Recovery disc (product number=RFKZD5TR006 or RFKZD03R004)

Note:

Previously required initialization after repair of DVD player is no longer necessary. After completing the recovery process, the user's setting is replaced with factory setting like user initialization. Therefore, record the user's setting before repair in order to restore it after applying the recovery process.

10.9.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:

Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FROM and restart version upgrade. Version upgrade disc number is informed when ordered.

10.10. Operation after Completion of Repair

Follow the steps described below after completion of repair.

10.10.1. Steps

While the power is turned on:

1. Close the tray using the OPEN/CLOSE button.

2. Turn off the power using the POWER button.

3. Unplug the power outlet.

10.10.2. Note

Do not unplug the power outlet while the tray is open, and do not close the tray manually.

11. CHECKING POINTS FOR SYS COM TIMER MY-COM (IC6001) (VIDEO)

11.1. Points to check when replacing

When the replacing the Sys Com Timer My-Com (IC6001), surely check the contents of data of a

microcomputer before replacing. When the Program Navi is "ON", take backup before replacing and set the initial value. *It also carries out at the time of replacing the P.C.B
(The procedure)

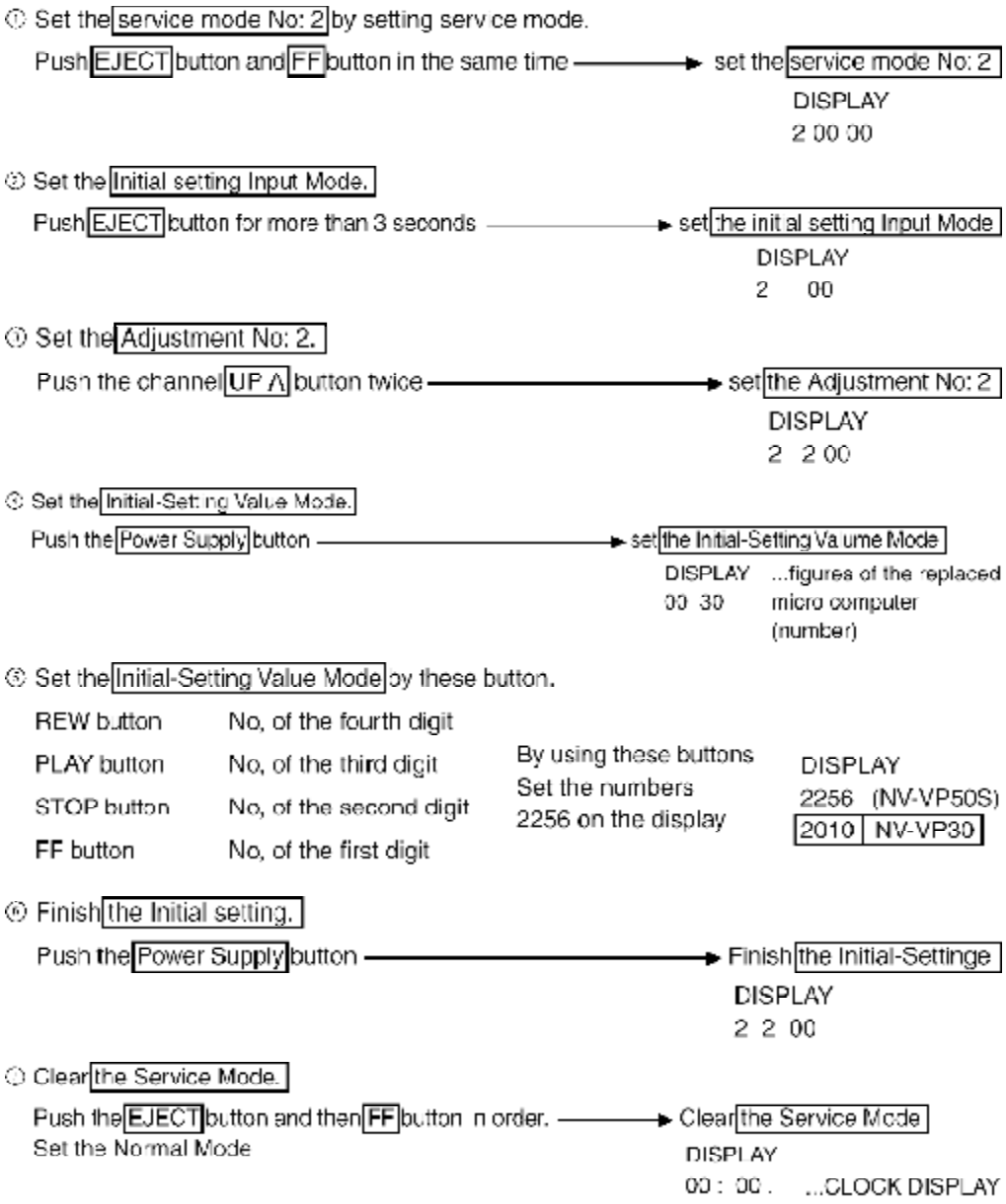
1. **Before replacing IC6001, please record and keep the channel of already set-up TV broadcast. The backup of the program navi is also required since IC6001 already stores the program navi data. Please surely take the backup when the navi data is "ON".**
   ***The procedure of checking the program navi data without a cassette.**
   A. Press both "EJECT" and "FF" buttons in the same time for 3 seconds and start the Service Mode.
   B. Push the button of program navi on the remote controller for 5 seconds.
   C. The program navi data is shown on the monitor.
   D.
2. **After replacing IC6001, switch on the power supply of the VIDEO.**
3. **Short out TL6002 and TL6004 on the main P.C.B by short jumper.**
4. **Initialise the Sys Com Timer My-Com as below.**
5. **After that, short out the TL7501 and TL7502 on the main P.C.B. by short jumper twice to make the factory setting. (Unless carrying out the Factory Setting, the indication of the line-in doesn't appear on the FIP panel).**
6. **After carrying out the procedure 1. to 5. as above please adjust the PG shifter.**

11.2. Initial setting when replacing My-com.

1. **Initial setting is an important function in order to guarantee as a product correctly. Unless it inputs the number according to the model, it cannot operate correctly.**
2. **Once the initial-setting value set up, even if a microcomputer (IC6001) is reset, it has memorized.**
3. **Be sure to set the initial-setting value when replacing the main P.C.B. with a microcomputer (IC6001).**
4. **The RAM inside of the microcomputer (IC6001) stores the PG self-adjustment. Be sure to do the PG self-adjustment when the Sys**

Com Timer My-Com, the P.C.B. with microcomputer, and cylinder unit are replaced.

11.3. Initial figure (#) setting procedure


① Set the service mode No: 2 by setting service mode.
Push EJECT button and FF button in the same time
set the service mode No: 2
DISPLAY
2 00 00
② Set the Initial setting Input Mode.
Push EJECT button for more than 3 seconds
set the initial setting Input Mode
DISPLAY
2 00
③ Set the Adjustment No: 2.
Push the channel UP ∧ button twice
set the Adjustment No: 2
DISPLAY
2 2 00
④ Set the Initial-Setting Value Mode.
Push the Power Supply button
set the Initial-Setting Value Mode
DISPLAY ...figures of the replaced micro computer (number)
00 30
⑤ Set the Initial-Setting Value Mode by these button.
REW button No, of the fourth digit
PLAY button No, of the third digit
STOP button No, of the second digit
FF button No, of the first digit
By using these buttons
Set the numbers
2256 on the display
DISPLAY
2256 (NV-VP50S)
2010 NV-VP30
⑥ Finish the Initial setting.
Push the Power Supply button
Finish the Initial-Settinge
DISPLAY
2 2 00
⑦ Clear the Service Mode.
Push the EJECT button and then FF button in order.
Set the Normal Mode
Clear the Service Mode
DISPLAY
00 : 00 . ...CLOCK DISPLAY

Caution:

When using the service mode, please be sure to plug in and plugout once (for resetting) after clearing the service mode and setting the normal mode.

12. Adjustment Procedure (DVD Section)

12.1. Required Tools and Equipment

Purpose of Use	Tools/Equipment	Model/Product Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hexagonal wrench	SZZP1101C
Inspection	Two extension cables (module circuit board - mother circuit board)	JGS0116
Others	Screw lock	RZZ0L01
	Grease	JGS0091 JGS0092
Checking	CD test disc	PVCD-K06 and any commercially available disc
	VCD test disc	PVCD-K06 and any commercially available disc
	Recovery disc	RFKZD5TR006 or RFKZD03R004

12.2. Necessity of Adjustment

12.2.1. Necessity of Optical Adjustment

- Before starting optical system adjustment, be sure to wear proper protection gear against static electricity.

- Optical adjustment (optical pickup tilt adjustment) is required after following parts are replaced:

1. Optical pickup
2. Spindle motor assembly
3. Optical pickup peripherals such as a rail, etc.

Note:

Optical adjustment is not necessary after replacement of other parts inside traverse, however, may require when picture deterioration is detected. Optical adjustment cannot be applied to the inside of optical pickup. When a traverse unit is replaced, the adjustment is not necessary.

12.2.2. Necessity of Electrical Adjustment

- Follow the procedure for adjustment.

12.3. Storing and Handling Test Discs

- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

1. Do not leave the discs uncovered on the work desk or other places after use.
2. Handle the discs carefully to prevent scratches. Put each disc in its case and place it in the standing position. Store the discs in a cool place and avoid direct sunlight or air conditioner.
3. Accurate adjustment cannot be expected with a disc warped against a flat surface. Obtain a new test disc for optical adjustment.
4. If a warped disc is used, adjustment would result incorrectly, and other discs could not be used.

12.4. Optical Adjustment (Optical Pickup Tilt Adjustment)

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw / Tilt adjustment screw	T1 (inner track) replay / T43 (outer track) replay	DVDT-S15 or DVDT
Measuring equipment		Adjustment value	
None (LCD display of the player is used.)		Adjust that jitter value becomes minimum.	

12.4.1. Optical Adjustment (Optical Pickup Tilt Adjustment)

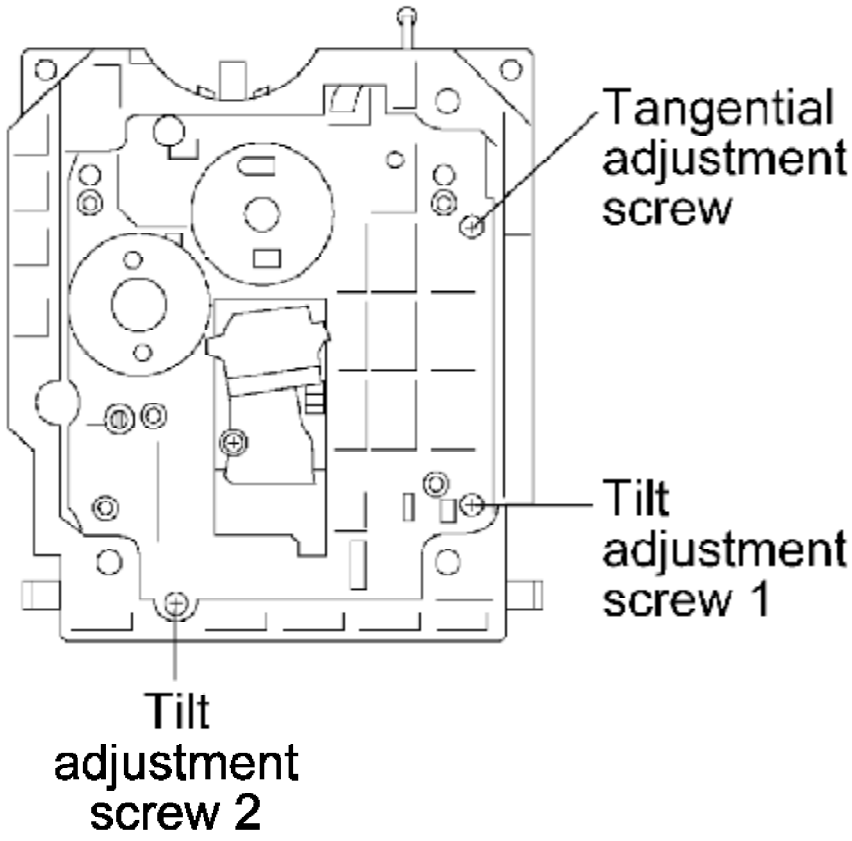
1. While the player is stopped and no disc is inserted, select the DVD function. Press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.
2. Check that “J_xxx_yyy_zz” is appearing on the display.

For your information:
The values, “yyy” and “zz” are not associated to jitter value. / “yyy” indicates the frequency of error occurrence. / “zz” indicates the focus drive value.

Note:
Jitter value appears on the display.

3. Replay T01 (inner track) of the test disc.
4. Adjust till the jitter value becomes minimum, using a tangential adjustment screw. <Fig. 12-1>
5. Replay T43 (outer track) of the test disc.
6. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 1. <Fig. 12-1>
7. Replay T43 (outer track) of the test disc.
8. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 2.<Fig. 12-1>
9. Adjust till the jitter value becomes, using the tilt adjustment screws 1 and 2 alternatively.

Fig. 12-1

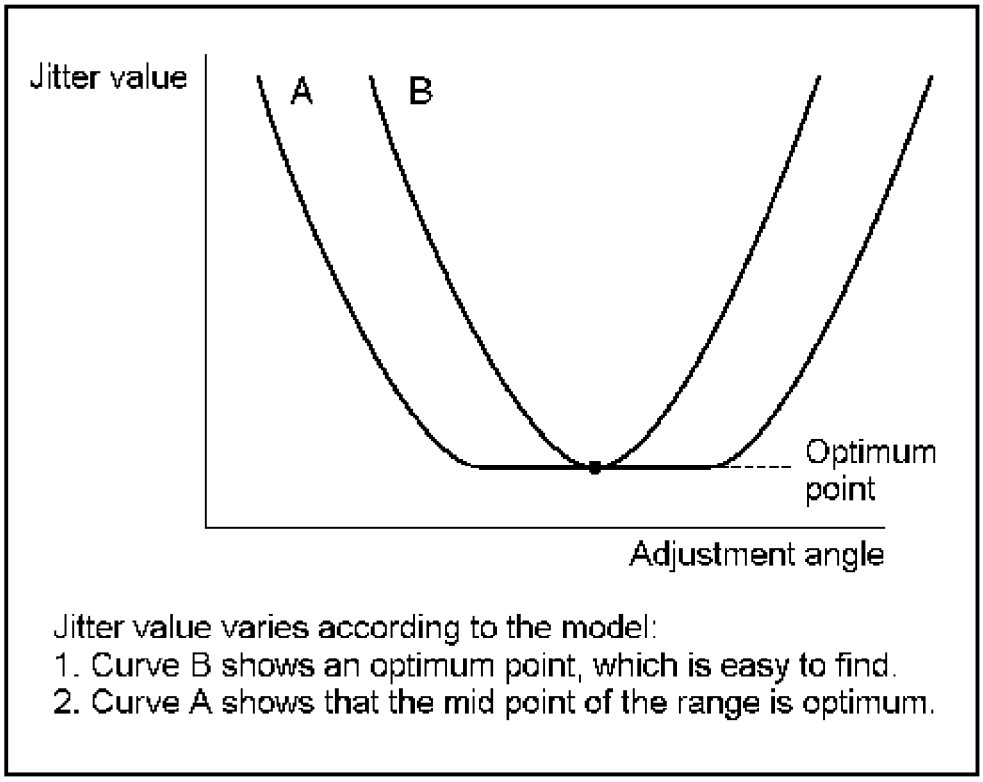


12.4.2. Tips

1. Apply the tangential adjustment first and then the tilt adjustment.

2. Repeat the adjustment a couple of times to find the optimum point.

3. Complete with the tilt adjustment.


Jitter value
A
B
Optimum point
Adjustment angle
Jitter value varies according to the model:
1. Curve B shows an optimum point, which is easy to find.
2. Curve A shows that the mid point of the range is optimum.

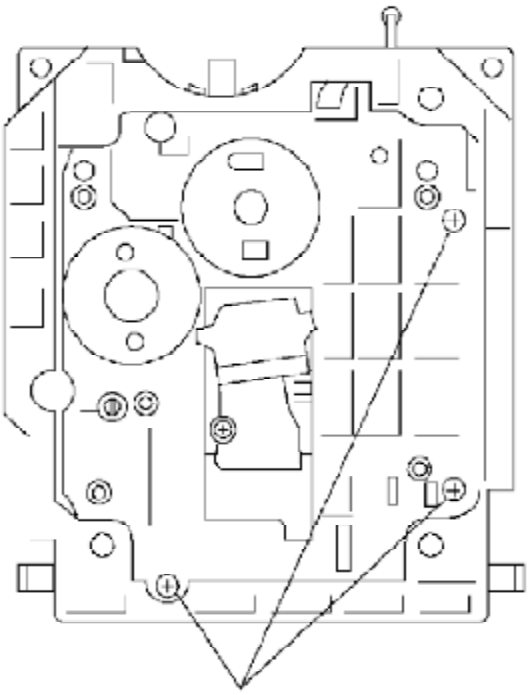
12.4.3. Check After Adjustment

Replay test discs or other commercial discs in order to confirm that no picture deterioration or sound skipping is detected in the inner, middle, and outer tracks. After this, fasten each adjustment screw securely using a screw lock.

12.4.4. Procedure for Screw Lock

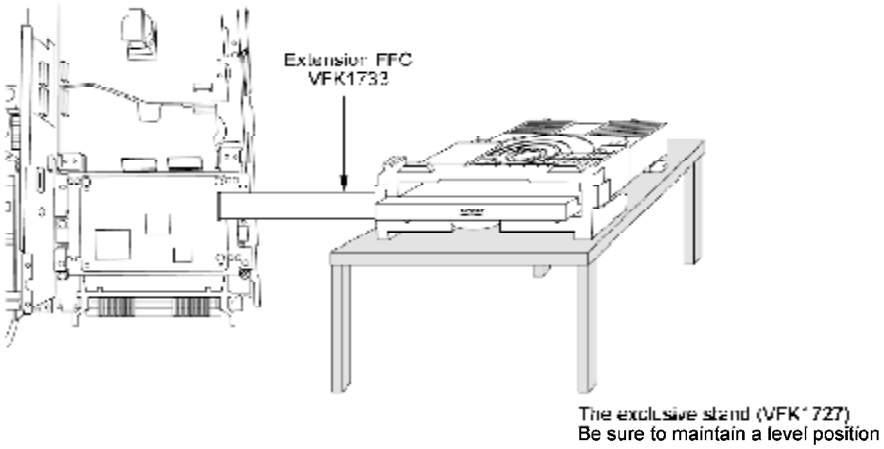
1. **After adjustment, remove the top cover, clamper base, disc tray and then traverse unit.**
2. **Place the traverse unit upside down, and fasten the adjustment screws with a screw lock. <Fig. 12.2>**
3. **After fastening the screws, assemble in order of the traverse unit, disc tray, clamper base, and then top cover.**

Fig. 12-2

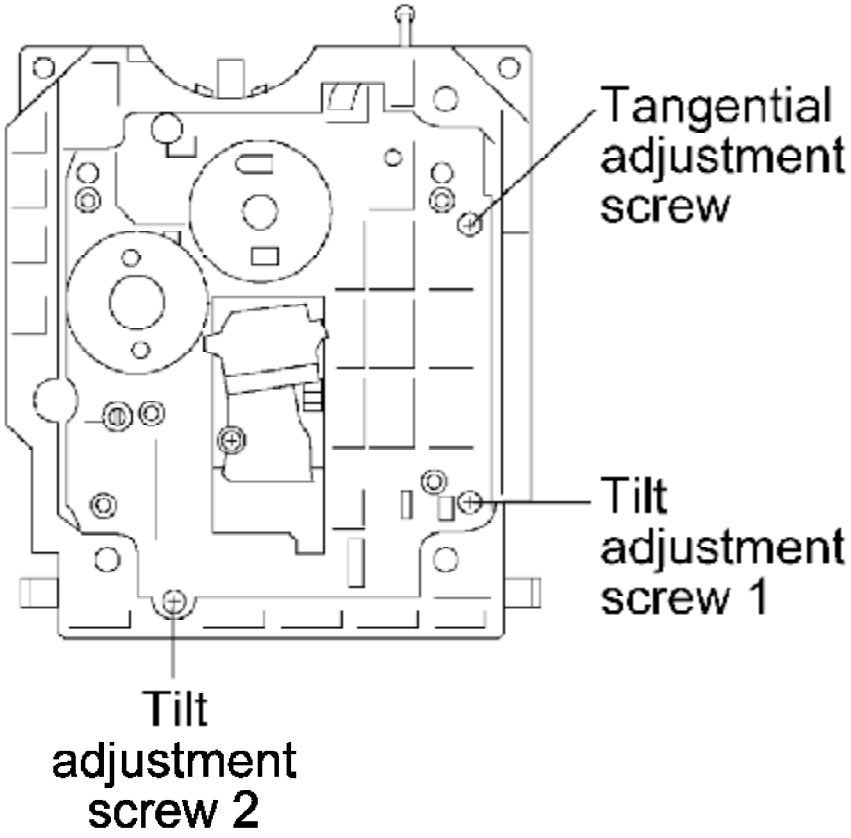


12.5. Optical Adjustment Procedure

1. Connect the DVD Mecha Unit and the DVD Module (2) P.C.B. with the extension FFC (VFK1733).



2. Put the DVD Mecha unit on the exclusive stand (VFK1727) and adjust the optical part from the bottom of the DVD Mecha unit, according to the adjustment place as diagram shown below.
Note :
Be sure to maintain a level position



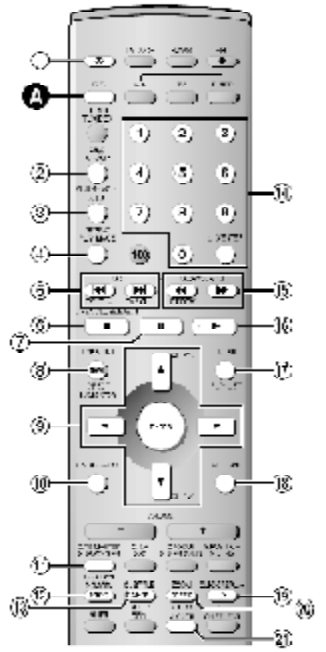
13. Operation Procedure

● If [SHIFT] appears after the button name, the function will not work unless you press the [SHIFT] button. Make sure to press [SHIFT] and the button

Remote control—common buttons

① **Main unit selector button**
DVD/VCR source button [DVD/VCR]
Switch the source on the main unit between DVD and VCR.
Tuner/band button [FM/AM]
Switch the source on the main unit to TUNER and change the band.
② **Remote control mode selector button**
[DVD] [VCR] [TV] [TUNER]
Changes the remote control mode. The button lights once pressed.
The selected mode is held in memory until you press another mode selector button.
The mode selector button lights each time you press a operational control button showing which mode is in use.
③ **Volume buttons [VOLUME −, +]**
Volume may be lower when playing DVD-Video than when playing other discs or during television broadcasts. Reduce the volume before playing other sources or returning to the television so volume doesn't increase suddenly.
④ **Bass adjust button [SUBWOOFER]**
⑤ **Sound field control button [SFC]**
Custom sound memory button [C.S.M.] [SHIFT]
⑥ **Shift button [SHIFT]**
To use the functions labeled in orange, press the button while pressing [SHIFT].
⑦ **Dolby Pro Logic button [DOPL]**
Sleep timer button [SLEEP] [SHIFT]
⑧ **Muting button [MUTING]**
Seat position button [S.POSITION] [SHIFT]
⑨ **Super surround button [SUPER SRND]**
Center focus button [C.FOCUS] [SHIFT]
⑩ **Speaker channel button [CH SELECT]**
Test signal button [TEST] [SHIFT]
⑪ **Down-mix button [MIX 2CH]**

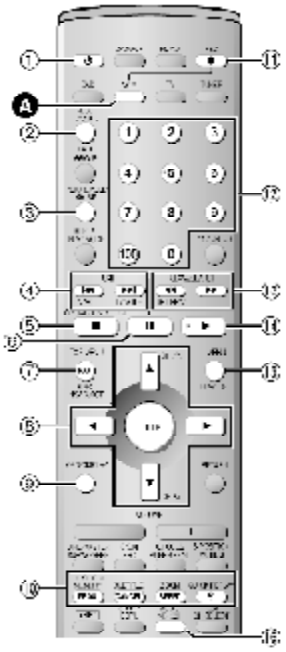
Remote control—DVD operation



Ⓐ **DVD remote control mode button [DVD]**
Switch the remote control mode to "DVD". Make sure you press before doing DVD operations. When in DVD mode, the [DVD] button lights each time you press one of the DVD operation buttons indicated below.
① **Power button [⏻]**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
② **Group button [GROUP]**
Still picture select button [PAGE] SHIFT
③ **DVD SETUP menu button [SETUP]**
④ **Play mode button [PLAY MODE]**
Repeat mode button [REPEAT] SHIFT
⑤ **Skip buttons [⏮, ⏭ SKIP]**
⑥ **Stop button [■]**
Open/close button [OPEN/CLOSE/EJECT] SHIFT
⑦ **Pause button [II]**
⑧ **Top menu button [TOP MENU]**
Direct navigator button [DIRECT NAVIGATOR]
⑨ **Cursor buttons [▲, ▼, ◀, ▶]**
Enter button [ENTER]
⑩ **On-screen menu icon button [OSD/DISPLAY]**
⑪ **Double re-master button [D.RE-MASTER] SHIFT**
⑫ **Position memory button [POSITION MEMORY]**
⑬ **Cancel button [CANCEL]**
Subtitle button [SUBTITLE] [SHIFT]
⑭ **Numbered buttons [1–9, 0, +10/ENTER]**
⑮ **Slow/search buttons [◀◀, ▶▶ SLOW/SEARCH]**
⑯ **Play button [▶]**
⑰ **Menu button [MENU]**
Play list button [PLAY LIST]
⑱ **Return button [RETURN]**
⑲ **Quick replay button [QUICK REPLAY]**
⑳ **Zoom button [ZOOM]**
㉑ **Soundtrack button [AUDIO] SHIFT**

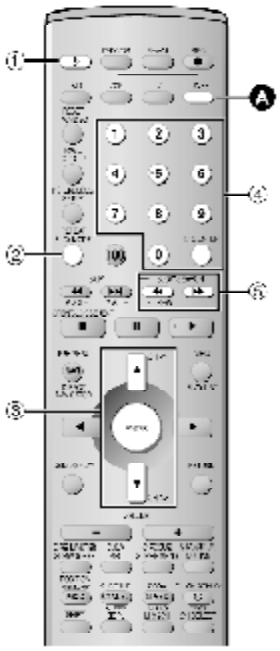
● If SHIFT appears after the button name, the function will not work unless you use with [SHIFT] button. Make sure to press [SHIFT] and the button.

Remote control—VCR operation



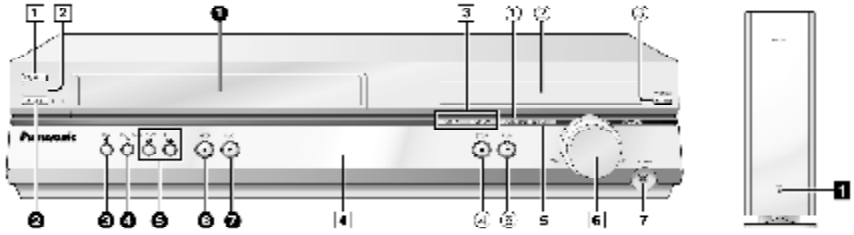
❶ **VCR remote control mode button [VCR]**
Switch the remote control mode to VCR. Make sure you press before using VCR operations. When in VCR mode, the [VCR] button lights each time you press one of the VCR operation buttons indicated below.
② **Power button [⏻]**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③ **TV/Video button [TV/VIDEO]**
Tape counter reset button [RESET] SHIFT
④ **Picture mode button [PICTURE MODE]**
⑤ **Index search button [⏮, ⏭ SKIP]**
⑥ **Stop button [■]**
Cassette eject button [OPEN/CLOSE/EJECT] SHIFT
⑦ **Pause button [⏸]**
⑧ **Jet navigator button [NAVI]**
⑨ **Cursor buttons [▲, ▼, ◀, ▶]**
Enter button [ENTER]
Channel, tracking, and vertical hold buttons [▲ CH ∧] [▼ CH ∨]
⑩ **On-screen display button [OSD/DISPLAY]**
⑪ **Timer recording buttons**
Timer programming button [PROG]
Cancel button [CANCEL]
Tape speed button [SPEED]
Timer program standby button [⏻]
⑫ **Recording button [● REC]**
⑬ **Numbered buttons [1–9, 100, 0]**
⑭ **Fast-forward/rewind button [◀◀, ▶▶ SLOW/SEARCH]**
Jet rewind button [◀◀ JET REW] SHIFT
⑮ **Play button [▶]**
Press and hold for five seconds to start repeat play
⑯ **Menu button [MENU]**
⑰ **Audio button [AUDIO]** SHIFT

Remote control—TUNER operation



❶ **TUNER remote control mode button [TUNER]**
Switch the remote control mode to TUNER. Make sure you press before using TUNER operations. When in TUNER mode, the [TUNER] button lights each time you press one of the TUNER operation buttons indicated below.
② **Power button [⏻]**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③ **FM mode button [PLAY MODE]**
④ **Channel buttons [▲ CH ∧] [▼ CH ∨]**
Enter button [ENTER]
⑤ **Numbered buttons [1–9, 0, +10/ENTER]**
⑥ **Tuning buttons [◀◀, ▶▶]**

Main unit and subwoofer



■ Common buttons

1. **Power button [POWER⏻/I]**
   Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
2. **Remote control signal sensor**
3. **Channel buttons [CH∨] [CH∧]**
4. **Display**
5. **Source selector buttons [SELECTOR]**
   VCR→DVD→FM→AM
6. **Volume dial [VOLUME DOWN, UP]**
   Volume may be lower when playing DVD-Video that is different from other discs or during television broadcasts. Reduce the volume before playing other sources or returning to the television so volume doesn't increase suddenly.
7. **Headphone terminal [PHONES]**

■ DVD section

- (1) **Progressive video button [PROGRESSIVE]**
- (2) **Disc tray**
- (3) **Open/close button [▲DVD OPEN/CLOSE]**
- (4) **Stop button [■ STOP]**
- (5) **Play button [▶ PLAY]**

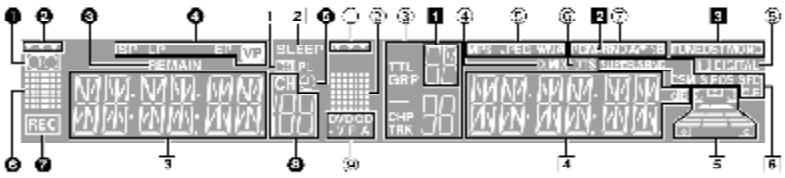
■ VCR section

- ❶ **Tape slot**
- ❷ **Tape eject button [▲VCR EJECT]**
- ❸ **Recording button [● REC]**
- ❹ **Timer recording button [⏲ TIMER REC]**
- ❺ **Fast-forward and rewind buttons**
  [◀◀ (–)REW] [▶▶ FF(+)]
- ❻ **Stop button [■ STOP]**
- ❼ **Play button [▶ PLAY]**

■ Subwoofer

- ❶ **AC supply indicator [AC IN]**
  This indicator lights when the subwoofer is connected to a household AC outlet.

Main unit display



■ Common display

1. **Dolby Pro Logic indicator**
2. **SLEEP timer indicator**
3. **Main display (Green)**
   Time display, video play/pause and elapsed time, program recording start time, various messages, etc.
4. **Main display (Orange)**
   Disc play elapsed time, program recording end time, volume, TUNER frequency/channel display, various messages, etc.
5. **Speaker channel, seat position display**
6. **Sound effect indicator**
   SUPER SRND: Super Surround
   CSM: Custom Sound Memory
   S.POS: Seat position
   SFC: Sound Field Control
   C.F: Center Focus

■ DVD operation

- (1) **DVD selector indicator**
  Lights when DVD is selected.
  Flashes for about 5 seconds immediately after selection is made.
- (2) **Operation display**
  Displays play and pause, etc.
- (3) **Title/Group/Chapter/Track number display**
- (4) **Down mix indicator**
- (5) **MP3/JPEG/WMA indicator**
- (6) **DTS indicator**
- (7) **Play sequence indicator**
  PGM: During program play
  RND: During random play
  🔁: During repeat
  A🔁B: During A-B repeat
- (8) **Dolby Digital indicator**
- (9) **Disc type indicator**

■ VCR operation

- ❶ **Video cassette indicator**
  Shows whether you have loaded a video cassette.
- ❷ **VCR selector indicator**
  Lights when the selector is in VCR mode.
  Flashes for about 5 seconds immediately after selection is made.
- ❸ **Tape remaining display indicator**
- ❹ **Tape speed indicator**
- ❺ **Timer program recording indicator**
- ❻ **Operation display**
  Displays play, fast-forward, or rewind, etc.
- ❼ **Recording indicator**
- ❽ **Channel display**

■ Tuner operation

- ❶ **Band display**
- ❷ **Preset indicator**
- ❸ **Radio broadcast display**
  TUNED: Receiving radio signal
  ST: Stereo
  MONO: Forced monaural

14. Disc information

■ Discs that can be played

Disc type	Logo	Indication used in instructions
DVD-RAM	DVD RAM 4.7	RAM Shown as "DVD-VR" on the display
DVD-Audio	DVD AUDIO	DVD-A
DVD-Video	DVD VIDEO	DVD-V
DVD-R	DVD R 4.7	
Video CD	COMPACT DISC DIGITAL VIDEO	VCD
CD	COMPACT DISC DIGITAL AUDIO COMPACT DISC DIGITAL AUDIO TEXT	CD Including CD text
CD-R/RW	—	WMA MP3 JPEG

- Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly.
- Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.
- It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

PAL discs (except DVD Audio), DVD-ROM, CD-ROM, CDV, CD-G, −RW, DVD-PW, DVD, SVCD, SACD, Divx Video Discs, Photo CD, DVD-RAM that cannot be removed from their cartridge, and 2.6-GB and 5.2-GB DVD-RAM.

■ Disc structure

Disc structure and the labels given to the items on discs depend on the disc type.

Track: the smallest division on DVD-Audio, CDs and Video CDs, or a single WMA/MP3 file.
Chapter: the smallest division on DVD-Video.
Group: collections of tracks on DVD-Audio and equivalent to folders or albums on data discs.
Title: the largest division on DVD-Video, usually an entire movie.
Program: the division on DVD-RAM equivalent to a single recording.
Picture: a single JPEG file.
Play list: the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.
Scene: DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.
Content: covers tracks and pictures on HighMAT discs.

■ DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove discs from their cartridges before use and return them when you are finished, making sure that all the kinds of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

■ DVD-R discs

Panasonic DVD-R recorded and "finalized" (a process that allows play on compatible equipment) on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

■ CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, Video CD, WMA, MP3, or JPEG. Close the session or "finalize" (a process that allows play on compatible equipment) after recording.

See page 23 for more information about WMA, MP3, and JPEG.

■ HighMAT discs

This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

■ Video systems

NTSC is used.

This unit converts still picture parts of PAL system DVD Audio to NTSC for play. The picture is compressed to show it in its entirety, so this may cause it to be stretched vertically.

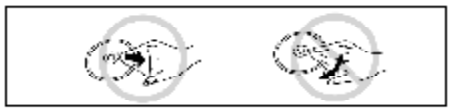
Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions. For example if the play time is not displayed on the Video CD menu list. Read the disc's instructions carefully.

■ To clean discs

DVD-Audio, DVD-Video, Video CD, CD

Wipe with a damp cloth and then wipe dry.

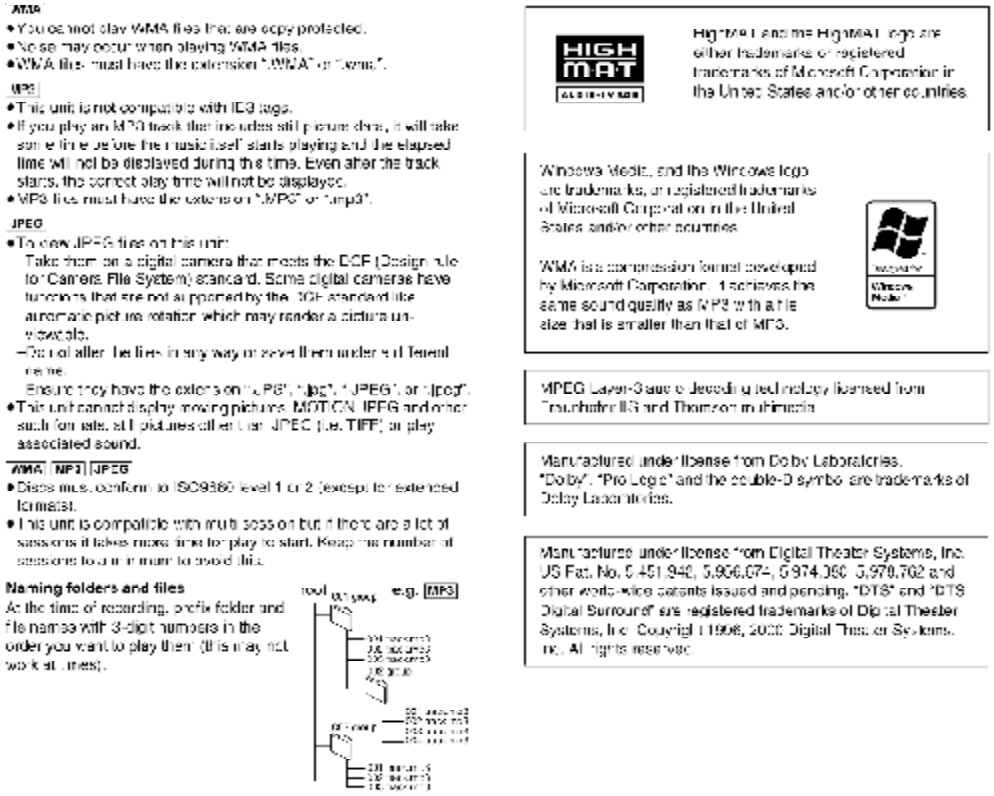


DVD-RAM, DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

■ Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.



15. About HighMAT

15.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co., Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard.

Level 1 Level 2 Level 3

HighMat is a format that allows users to save digital contents such as photographs, audio and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

15.2. Why use HighMAT?

Up to now, there was no harmonized standard from playing digital content stored in CD-ROM

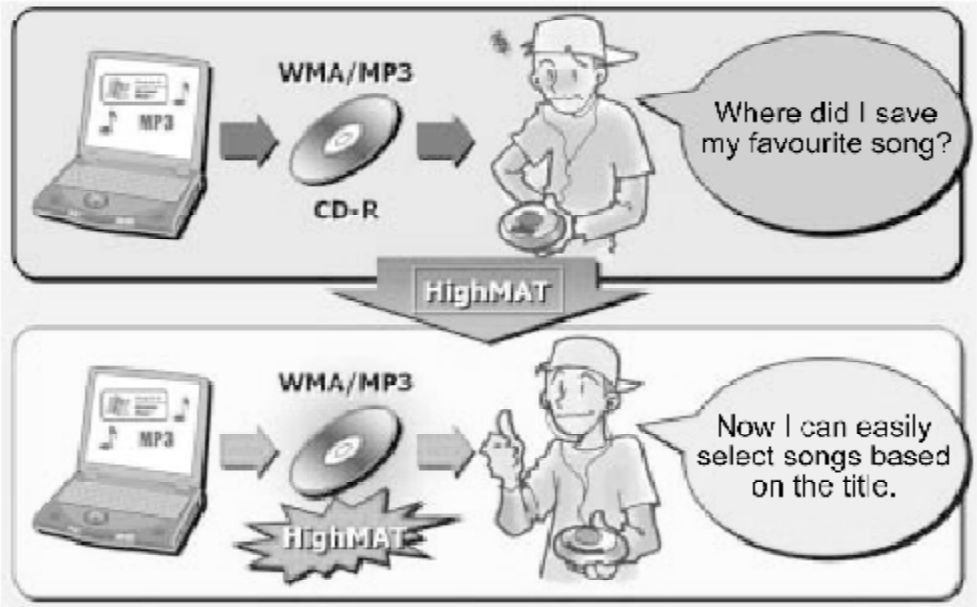
formats (including CD-R) on consumer products like DVD players. Therefore, we used to have problems such as follow:

- There was no common play list or attached information on contents, which is called metadata.
- The data compression method differed according to the equipment.
- As the number of CD-ROMs recorded increased retrieved the contents became more difficult.
- Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.

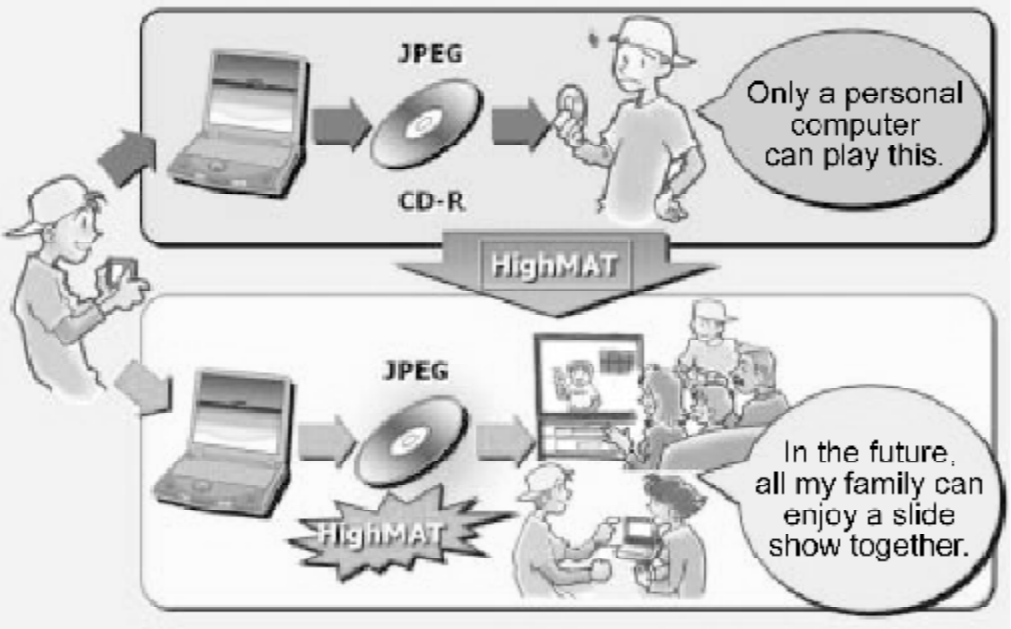
15.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- It will create a common user interface for both PC and consumer products.



- Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos and minicomputers, a consistent way to play for digital content will be created, and it will make it easier to retrieve data.



- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

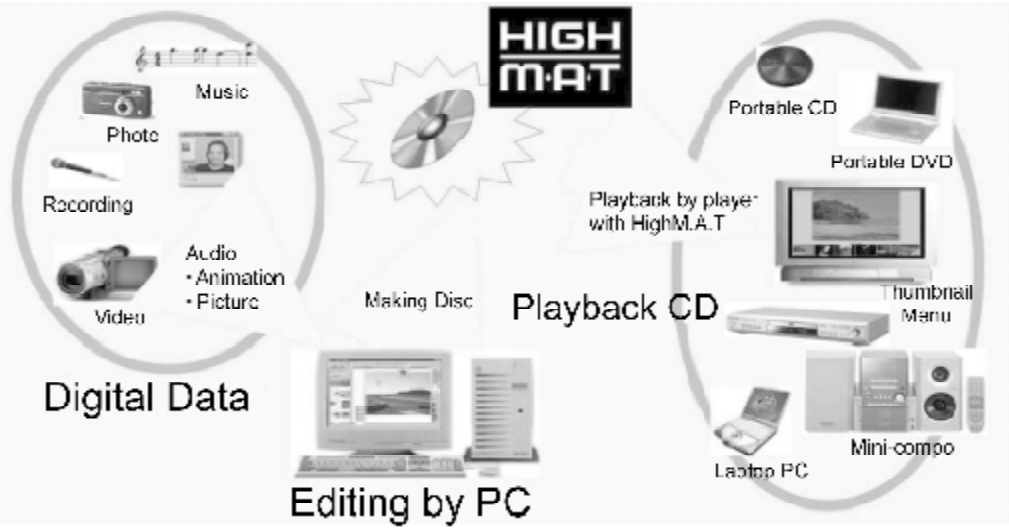
15.4. Outline of the HighMAT standard

1. Recording medium

- CD-R/CD-RW

- Supports ISO 9660 Level Expanded Joliet

- For multiple session



2. Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)

- Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG

- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV,

MPEG4 (optional)

3. Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 kHz, stereo, fixed bit rate/variable bit rate.

- WMA, V2 and above, excluding Lossless/Voice/Pro

- JPEG: Max 6M pixel, Maximum file size: 3 MB

4. Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450

- Total number of still picture files: Maximum 999

- Total number of animation files: Maximum 200

- Total number of directories: Maximum 400

- Length of a file name: Maximum 108 characters (Unicode)

- Total number of play lists: Maximum 200

- Number of contents in the playlist: Maximum 900

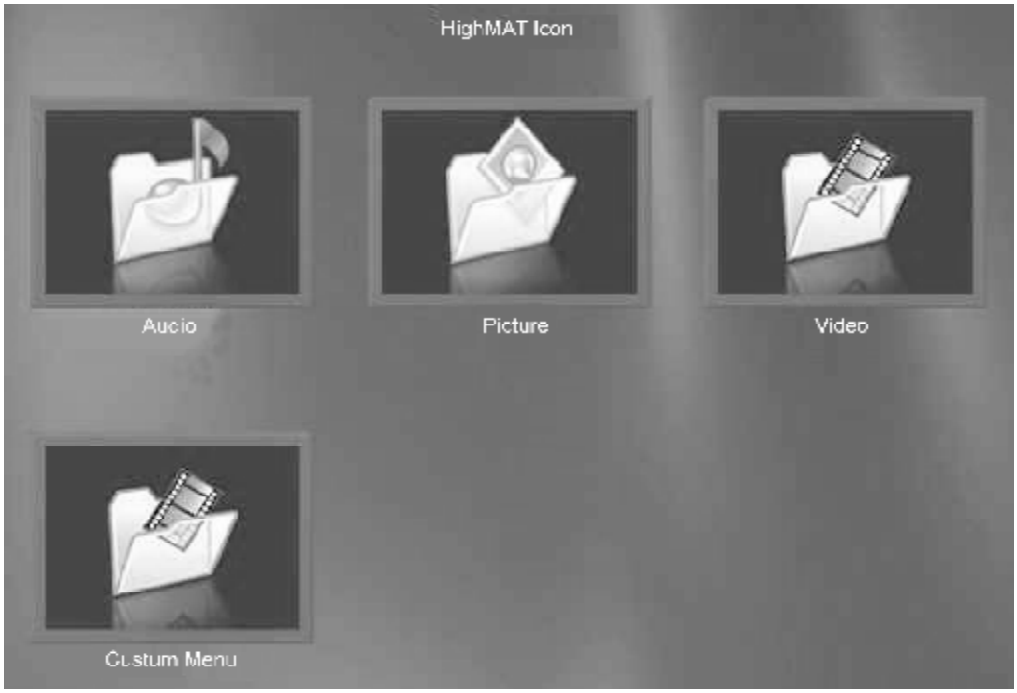
5. Composition of HighMAT disc

- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.

- Play list: A list in which one or more digital contents are arranged in order.

- Group: Sub-divided group of a play list.

- Digital Contents: Audio, still picture and animation data.



16. Disassembly and Main Component Replacement

Procedures and Operational Check

“ATTENTION SERVICER”

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

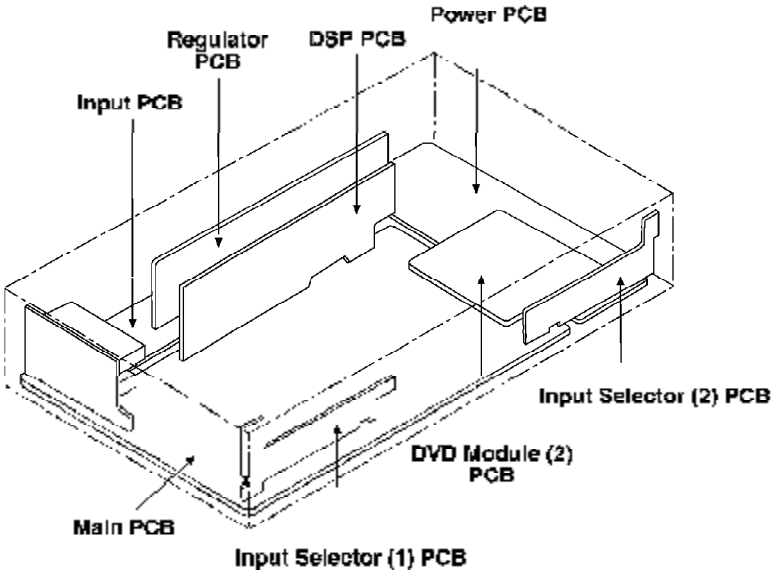
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

- P.C.B. Positions
- Removal of Top Cabinet
- Removal of Front Panel
- Removal of VTR Mecha Unit
- Removal of DVD Mecha Unit
- Removal of DVD Module (2) P.C.B.
- Removal of Tuner, DSP, Regulator, Input, Power and Main P.C.B.
- Removal of Traverse Deck Unit and Optical Pickup
- Removing of the Cassette Tape Manually.
- Removing of the DVD Disc Manually

Warning:

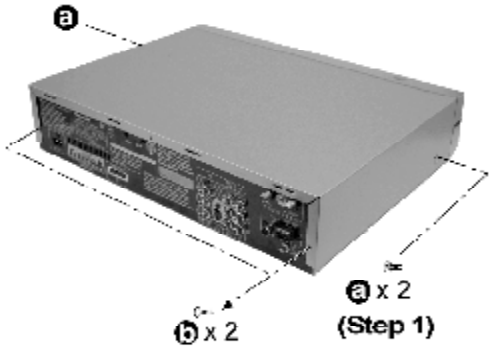
This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

16.1. P.C.B. Positions

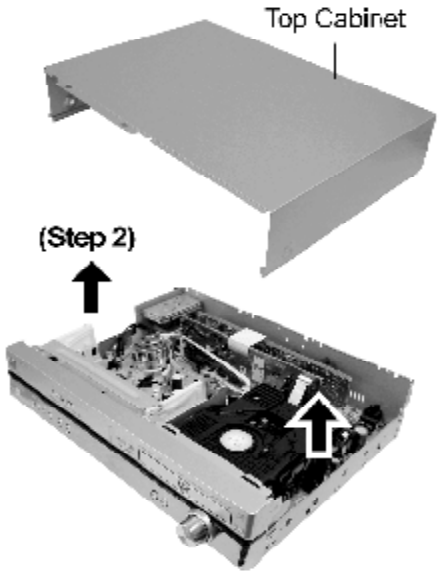


16.2. Removal of Top Cabinet

Step 1: Remove all the screws.

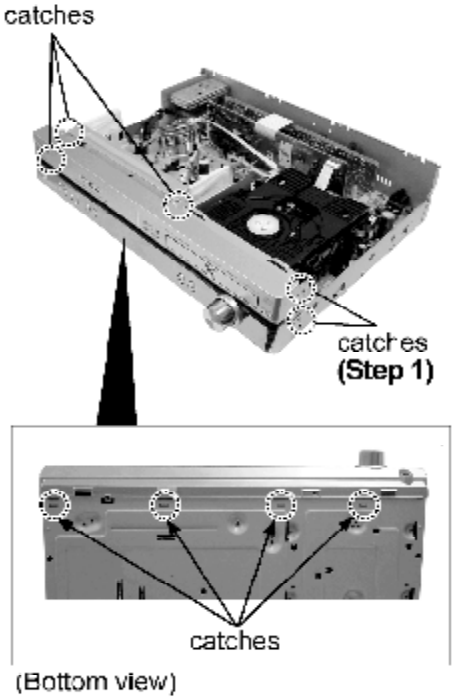


Step 2: Remove the Top Cabinet as arrow shown below.

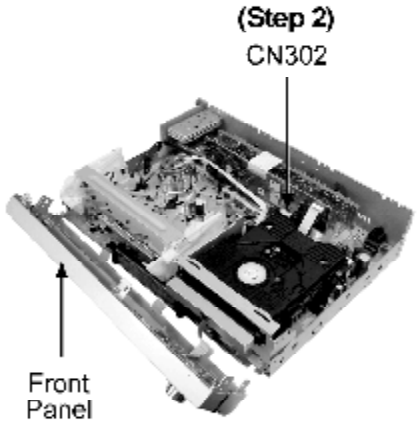


16.3. Removal of Front Panel

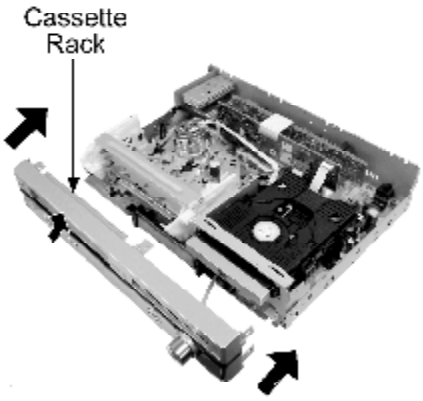
Step 1: Remove all the catches.



Step 2: Detach the FFC (CN302).



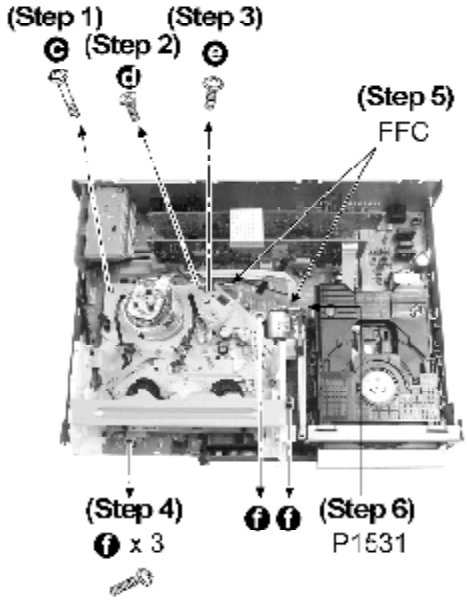
[Caution od assembly of Front Panel]
Press upward thecassette rack to place the Front Panel.



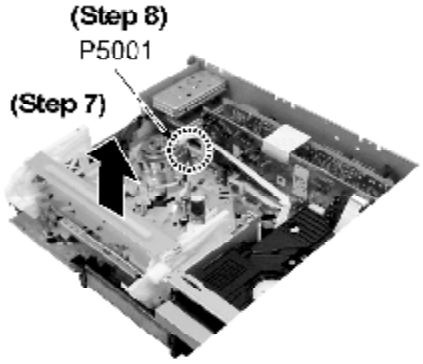
16.4. Removal of VTR Mecha Unit

- Follow the (Step 1) to (Step 2) of item 16.2
- Follow the (Step 1) to (Step 2) of item 16.3

Step 1 to 4: Remove all the screws.
Step 5: Detach all the FFC.
Step 6: Disconnect the connector (P1531).



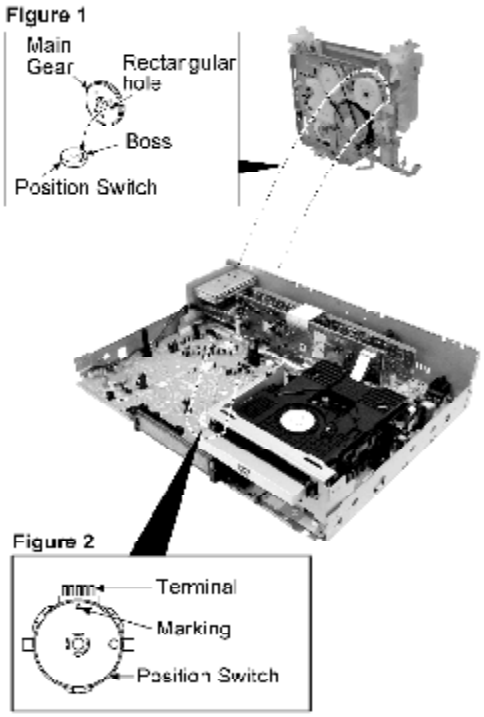
Step 7: Lift up the VTR Mecha Unit as arrow shown below.
Step 8: Detach the connector (P5001) carefully when lift up the VTR Mecha Unit.



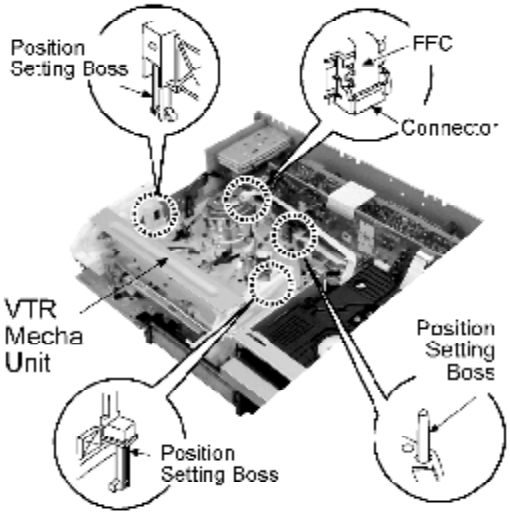
[Caution of assembly the VTR Mecha Unit]

1. Join the marking (△)of the position switch tothe position of "EJECT" (the center part of the terminal). (Figure 2)

2. Assembly the boss at the position switch to the rectangular hole at the main gear. (Figure 1)



3. **Slowly join back the VTR Mecha Unit to fit the position setting boss (3 locations) on the Main unit.**
4. **Make sure the FFC insert to the the connector (P5001).**

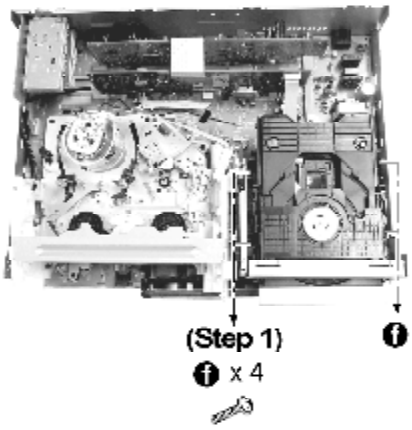


16.5. Removal of DVD Mecha Unit

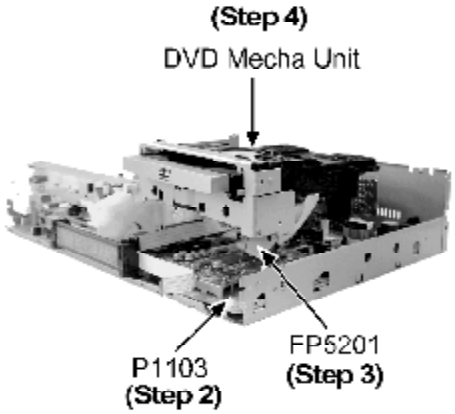
- Follow the (Step 1) to (Step 2) of item 16.2

- Follow the (Step 1) to (Step 2) of item 16.3

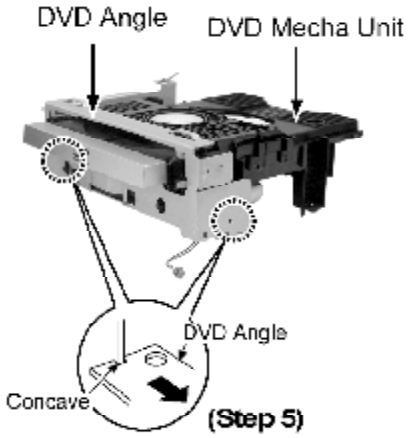
Step 1: Remove all the screws.



Step 2: Remove the connector (P1103).
Step 3: Detach the FFC (FP5201).
Step 4: Lift up DVD Mecha Unit.



Step 5: Remove the concave of DVD angle as arrow shown below.



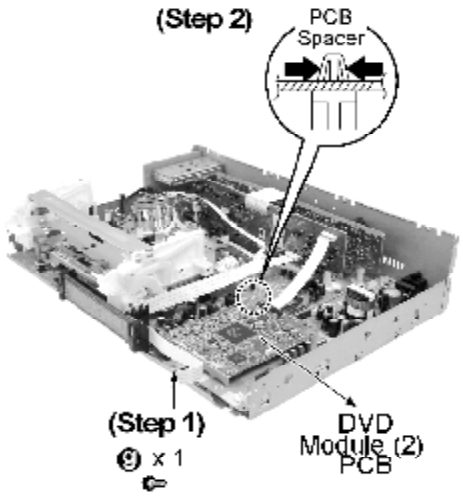
16.6. Removal of DVD Module (2) P.C.B.

- Follow the (Step 1) to (Step 2) of item 16.2
- Follow the (Step 1) to (Step 2) of item 16.3

- Follow the (Step 1) to (Step 4) of item 16.5

Step 1: Remove all the screws.

Step 2: Press the PCB Spacer as arrow shown and lift up the DVD Module (2) P.C.B.



Step 3: Remove the DVD Module (2) P.C.B. as arrow shown below.

(Step 3)

16.7. Removal of Tuner, DSP, Regulator, Input, Power and Main P.C.B.

- Follow the (Step 1) to (Step 2) of item 16.2

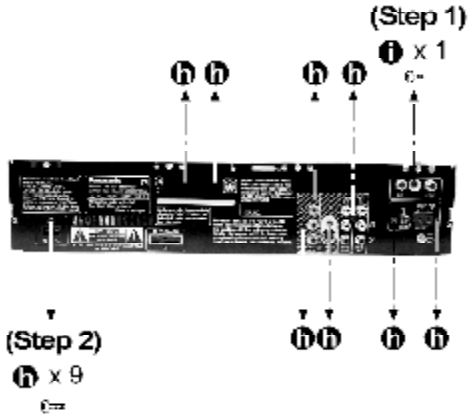
- Follow the (Step 1) to (Step 2) of item 16.3

- Follow the (Step 1) to (Step 8) of item 16.4

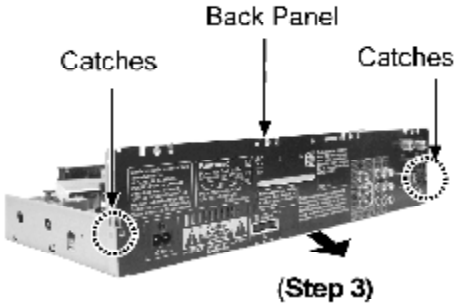
- Follow the (Step 1) to (Step 5) of item 16.5

- Follow the (Step 1) to (Step 3) of item 16.6

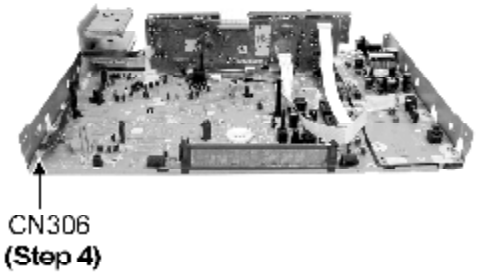
Step 1-2: Remove all the screws.



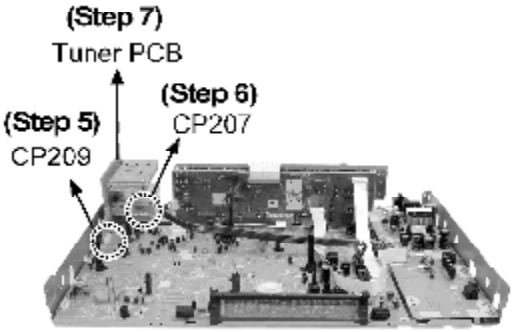
Step 3: Remove the back panel as arrow shown below.



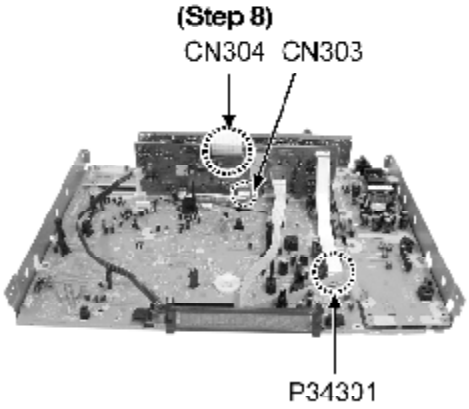
Step 4: Remove the connector (CN306).



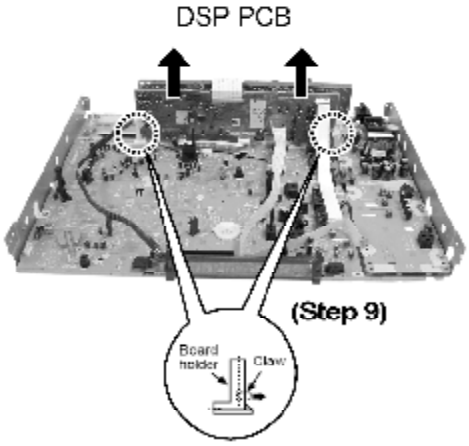
Step 5-6: Remove all the connector (CN209 and CN207).
Step 7: Remove the Tuner P.C.B.



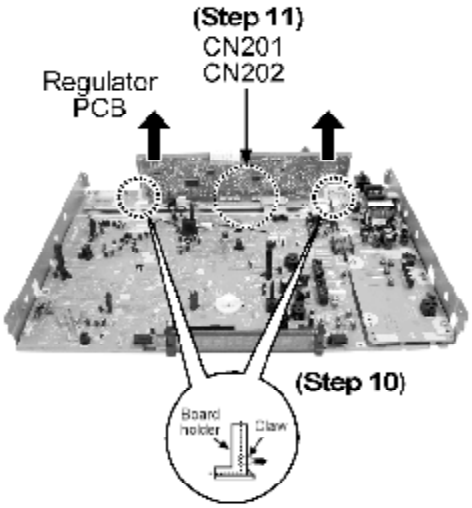
Step 8: Remove all the FFC (CN303, CN304 and P34301).



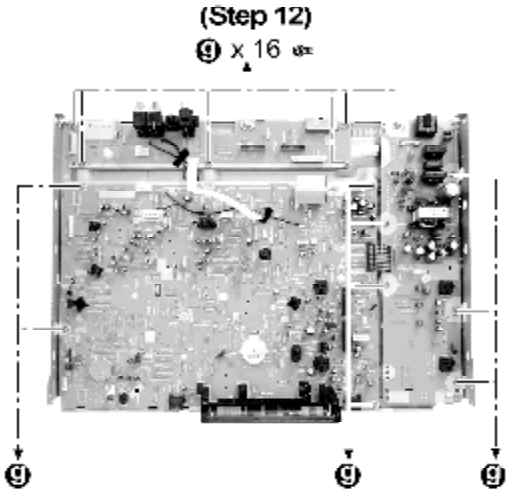
Step 9: Detach the DSP P.C.B. while removing tab on the board holder.



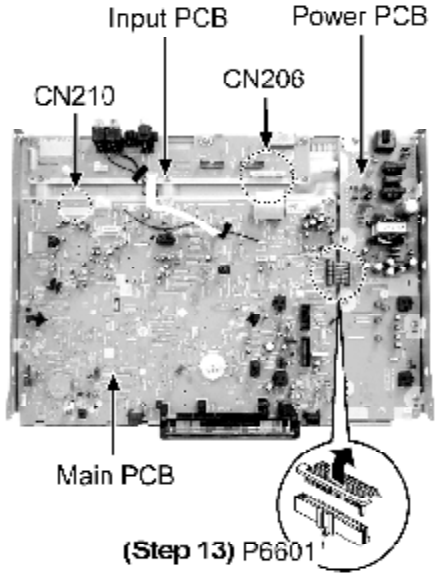
Step 10: Detach the Regulator P.C.B. while removing tab on board holder.
Step 11: Detach all the connectors (CN201 and CN202).



Step 12: Remove all the screws.



Step 13: Remove all the connectors (CN201, CN206 and P6601).



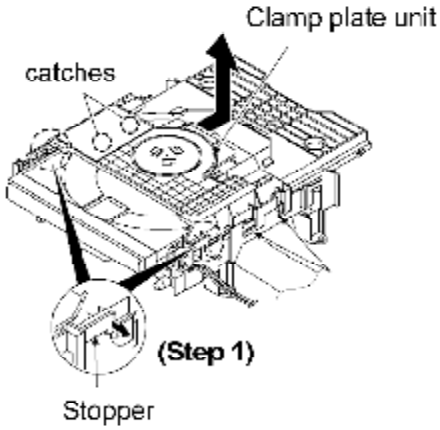
16.8. Removal of Traverse Deck Unit and Optical Pickup

- Follow the (Step 1) to (Step 2) of item 16.2

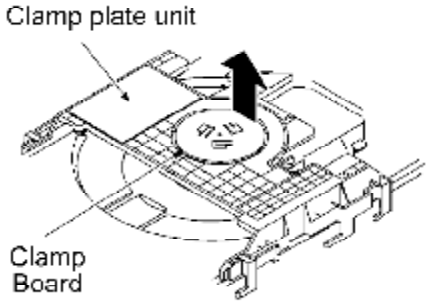
- Follow the (Step 1) to (Step 2) of item 16.3

- Follow the (Step 1) to (Step 5) of item 16.5

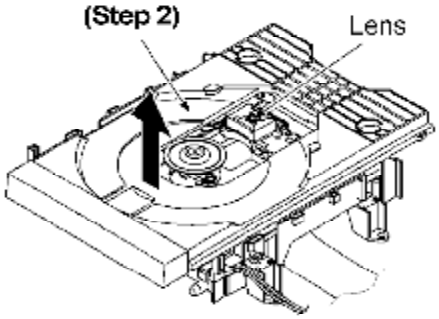
Step 1: While opening and holding down the stopper, slide the catches in order to remove the clamp plate unit.



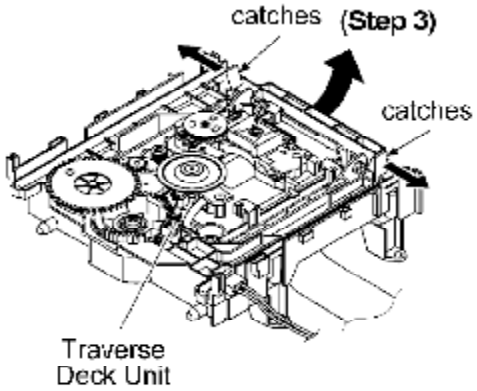
[Note]
When the traverse deck unit is set to UP, the clamper magnet is activated, In this case, raise the clamp board in order to remove the clamp plate unit.



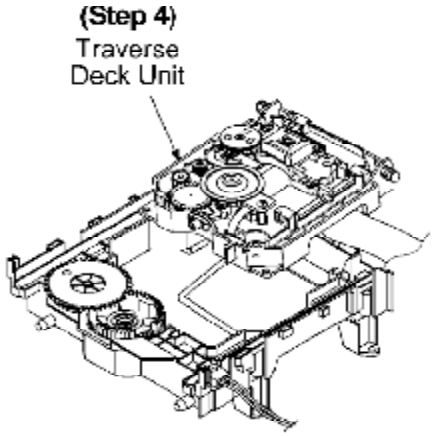
Step 2: Lift upward the disc tray to remove it.



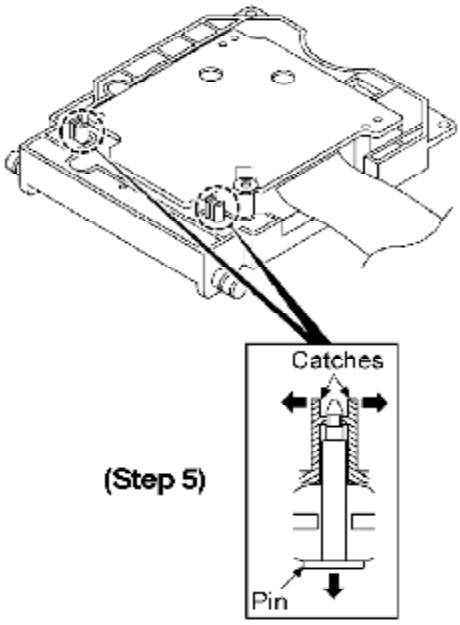
Step 3: Remove all the catches and pull out the traverse deck unit.



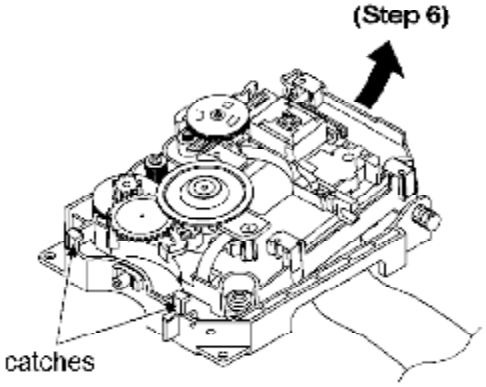
Step 4: Remove the traverse deck unit.



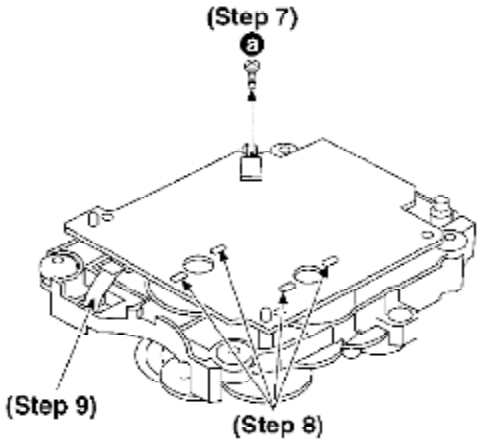
Step 5: Open the catches and pull out the pin as arrow shown.



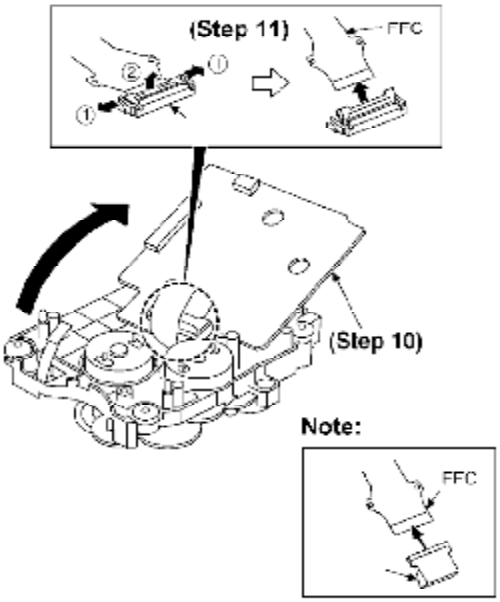
Step 6: Remove all the catches and remove the traverse deck unit as arrow shown.



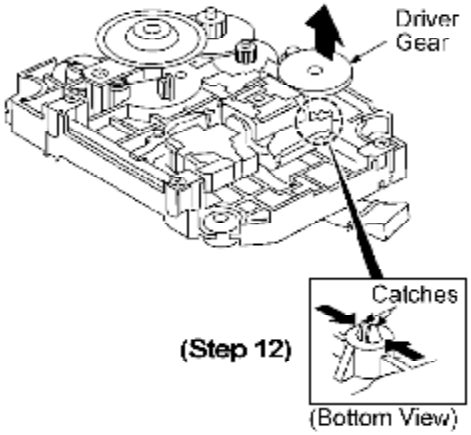
Step 7: Remove the screw.
Step 8: Remove the soldering of the motor terminals.
Step 9: Detach the FFC.



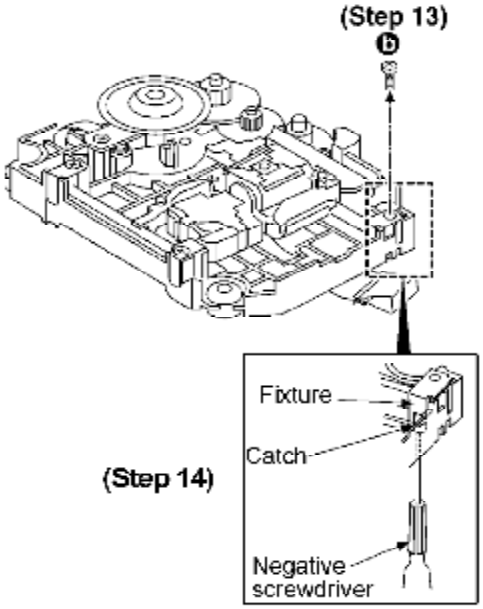
Step 10: Turn over the DVD Module (1) P.C.B.
Step 11: Remove the FFC from the connector.
[Note]
After removing FFC from connector, place the short pin to the FFC terminal.



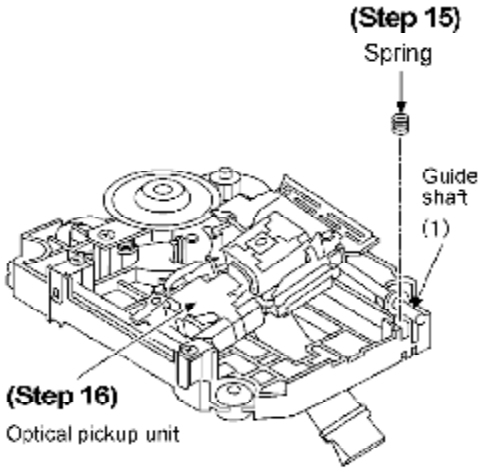
Step 12: Remove all the catches and pull out the driver gear.



Step 13: Remove the screw.
Step 14: Remove the catch and then attching fixture.



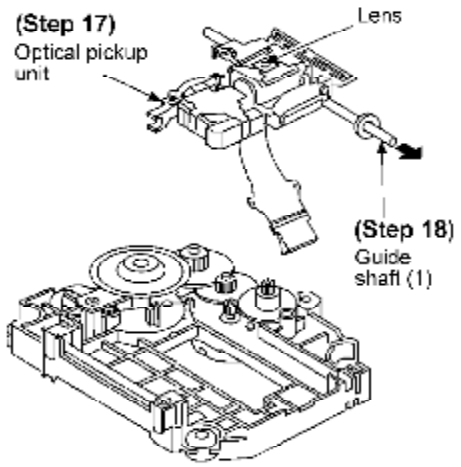
Step 15: Remove the spring.
Step 16: Lift up the optical pickup unit and remove the guide shaft (1).
[Note]
Do not lose the spring



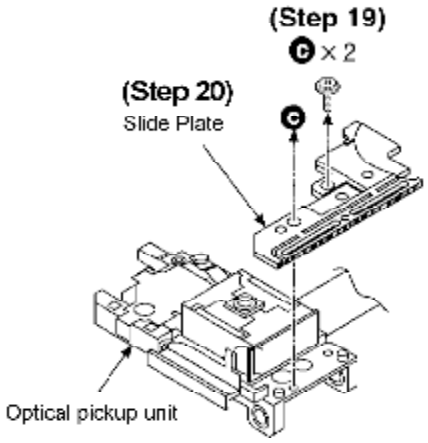
Step 17: Remove the optical pickup unit.
Step 18: Pull out the guide shaft (1).
[Note]

1. Do not shock optical pickup as the structure uses a high precision technology.

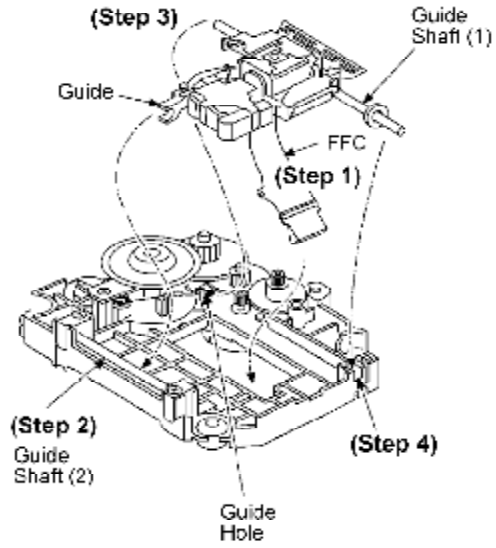
2. Do not touch the lens of the optical pickup.



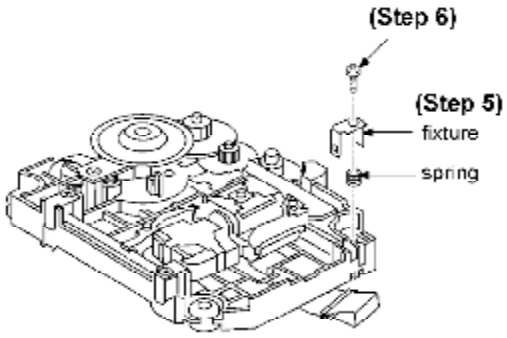
Step 19: Remove all the screws.
Step 20: Remove the slide plate.



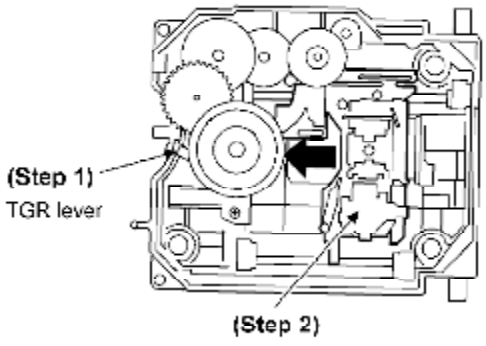
[Installing Optical Pickup Unit]
Step 1: Pull FFC through the hole of traverse chassis.
Step 2: Hook the optical pickup guide on the guide shaft (2).
Step 3: Attach the end of the guide shaft (1) to the hole of the guide.
Step 4: Attach the guide shaft (1) to the guide.



Step 5: Attach the spring and the attaching fixture.
Step 6: Fasten with a screw

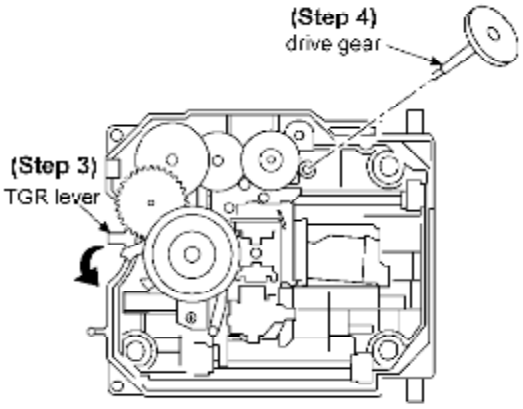


[Installing Traverse Base Unit]
Step 1: Check the TGR lever is positioned as shown in the diagram below.
Step 2: Fully slide the optical pickup unit to the arrowed direction.

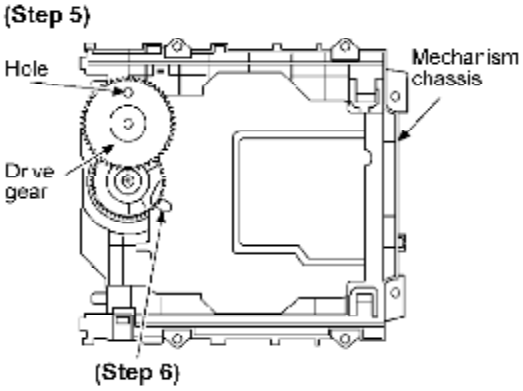


Step 3: Check that when the optical pickup unit is fully slid to the specified direction, TRG lever shifts to the arrowed direction.
Step 4: Attach the drive gear.

[Completion of Preparation for Traverse Base Unit Installation]



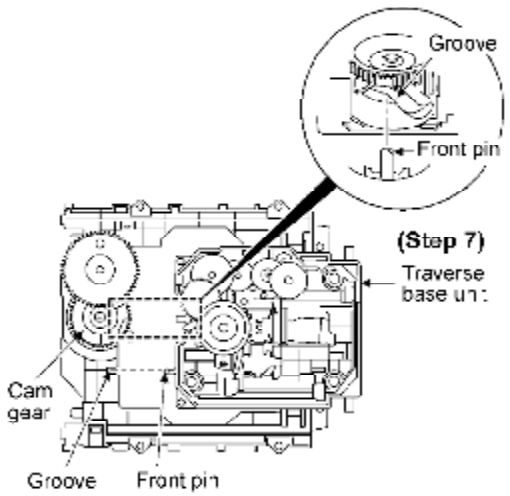
Step 5: Put together the holes of drive gear and mechanism chassis.
Step 6: Position the protrusion of cam gear as shown in the above diagram.



Step 7: Attach the traverse base unit to the mechanism chassis.

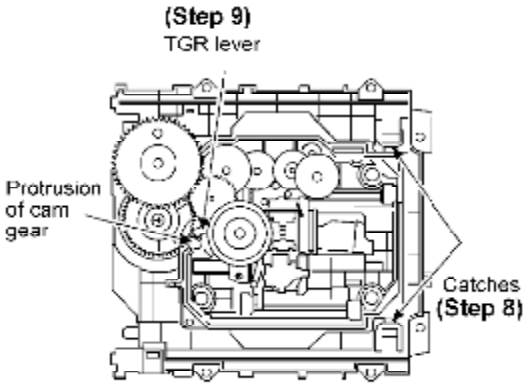
- Insert the front pin to the groove of the cam gear.

- Insert the protrusion of the traverse base unit to the groove of mechanism chassis



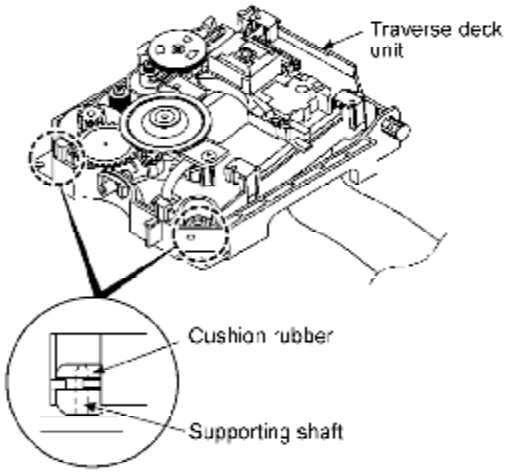
Step 8: Push into the traverse base unit and hook on to the two clutches.
Step 9: Check that the TGR lever and the protrusion of the cam gear are positioned as shown in

the above diagram.



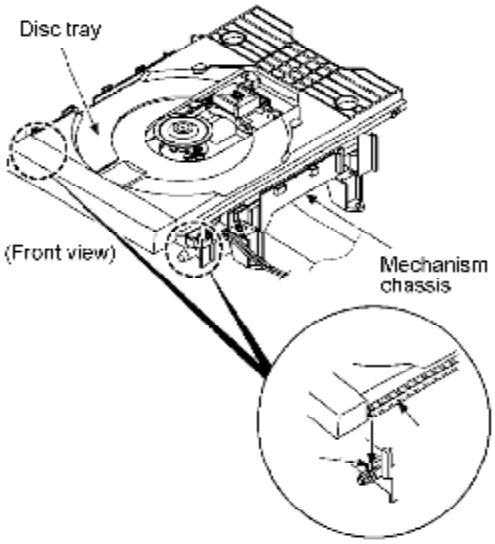
[Precaution to Be Taken During Installation of Traverse Deck Unit]

- **For cushion rubber, handle with care to avoid distortion and turning up when inserting into the supporting shaft.**



[Installation of Disc Tray]

- **For installation, position the protrusion of the mechanism chassis to the most front surface of the disc tray groove.**



16.9. Removing the Cassette Tape Manually

When electrical system failure occurs and a loaded cassette tape is stuck in the unit, follow the instruction below to remove it.

16.9.1. Removal by Compulsory Loading

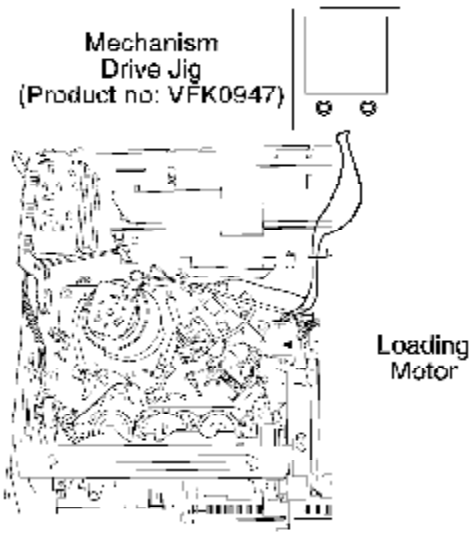
(Available when service mode is on even when the power cannot be turned off.)

1. **Press and hold down the "FF" and "EJECT" buttons at least three seconds then adjust the service number until appears as "7".**
2. **Press the "STOP" button to unload. / (Carefully check for tape slack)**

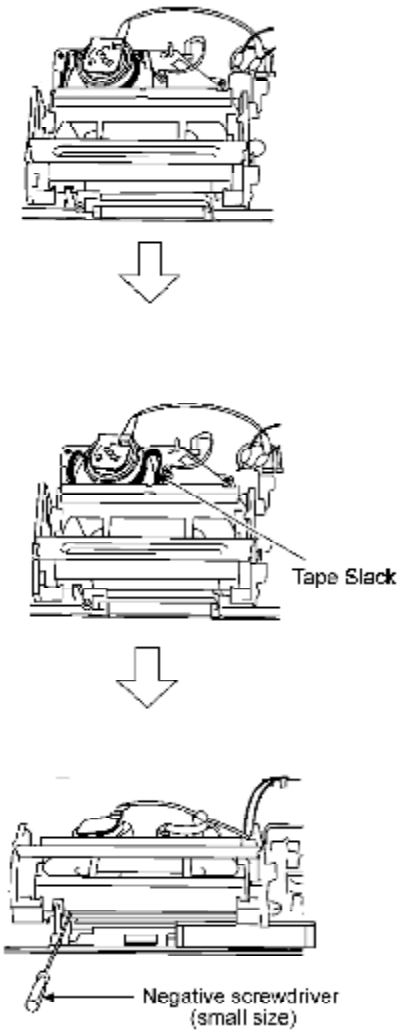
Service mode display	7	05	* * ⟶	7	CL * *
Cassette tape position		(STOP)			(EJECT)

16.9.2. Removal by Use of Battery to Rotate Loading Motor

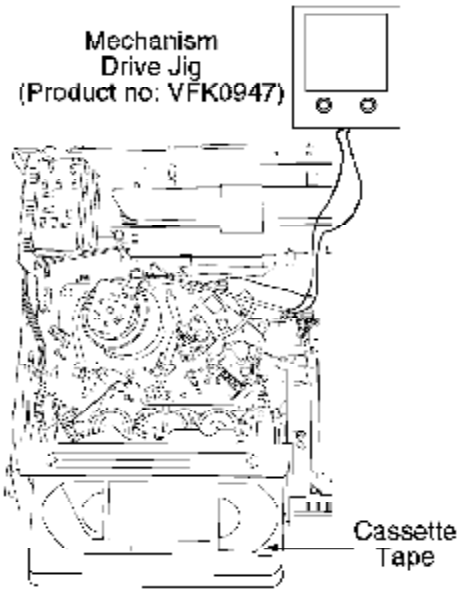
1. **Unplug the power outlet, and remove the top panel and the front panel.**
2. **Use a mechanism drive jig (or three AA-size batteries connected in series) in order to supply 4.5V and to rotate the loading motor.**



3. Suspend the unloading operation right before completion. Rotate the S-reel board with a negative screwdriver (small size) to remove tape slack.

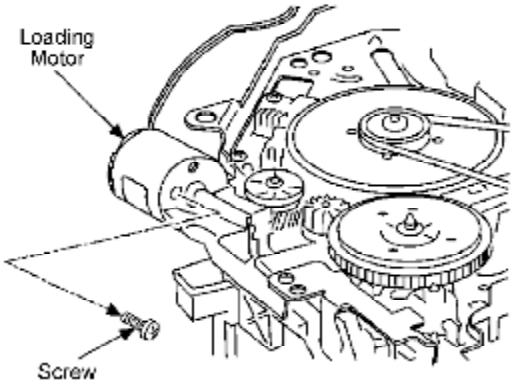


4. Restart the unloading operation to remove the cassette tape.

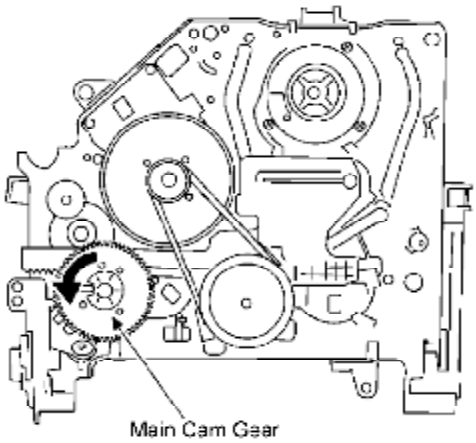


16.9.3. Removal of Mecha Unit then take out Cassette Tape

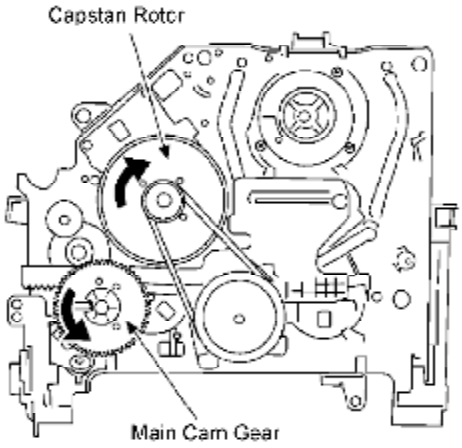
1. **Unplug the power outlet and remove the top panel and the front panel.**
2. **Remove the VTR mechanism unit.**
3. **Remove the loading motor (remove a screw).**



4. **Rotate the main cam gear counterclockwise, and suspend the unloading operation right before completion.**



5. Rotate the capstan rotor clockwise in order to remove tape slack. Rotate the main cam gear counterclockwise again and remove the cassette tape.

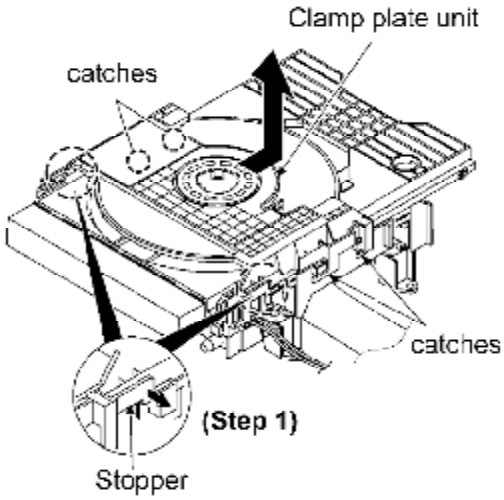


6. Reassemble the loading motor and the mechanical unit to the Main P.C.B. and securely fasten with the screws. / (Refer to "Precaution to Be Taken During Installation of Traverse Deck Unit".)

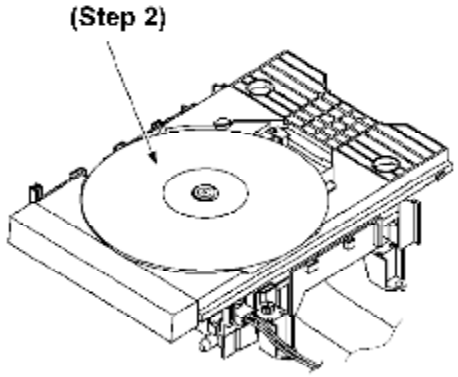
16.10. Removing the DVD Disc Manually

When electrical system failure occurs and a loaded DVD Disc is stuck in the traverse deck unit, follow the instruction below to remove it.

1. Disconnect the power cord and remove the top cabinet.
2. Remove front panel and traverse deck unit. / (Refer to items 16.2 and 16.5)



Step 1: While opening and holding down the stopper, slide the catches in order to remove the clamp plate unit



Step 2 : Remove the Disc such as DVD.

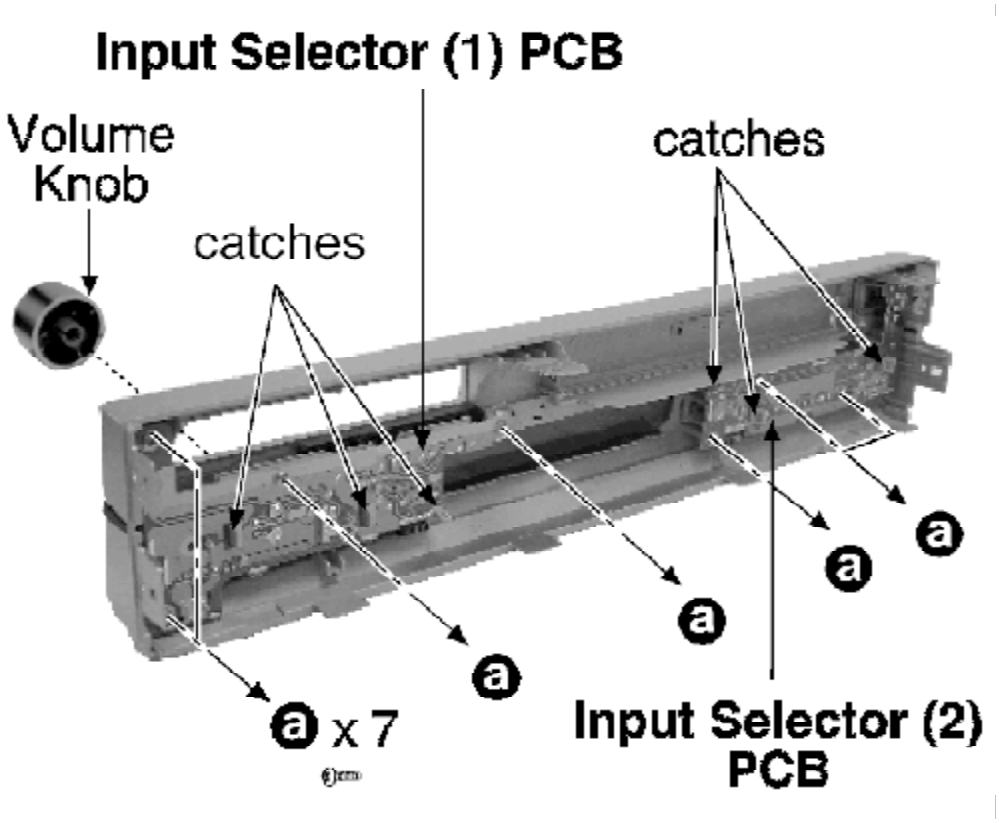
17. Procedure for checking of the major P.C.B.

17.1. Checking the DSP P.C.B., Regulator P.C.B., DVD Module (1) P.C.B., DVD Module (2) P.C.B., Input Selector (1)/(2) P.C.B., Power P.C.B., Input P.C.B. and Main P.C.B.

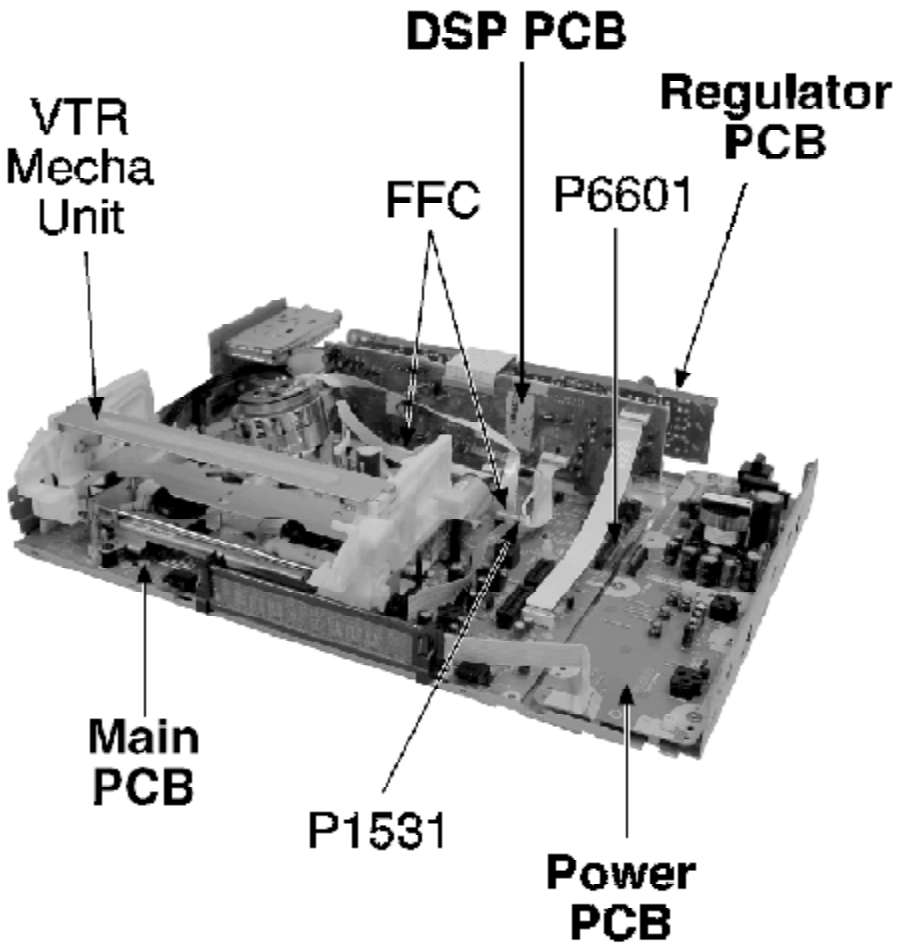
Preparation

Follow items 16.1 to 16.7 of Disassembly Procedure.

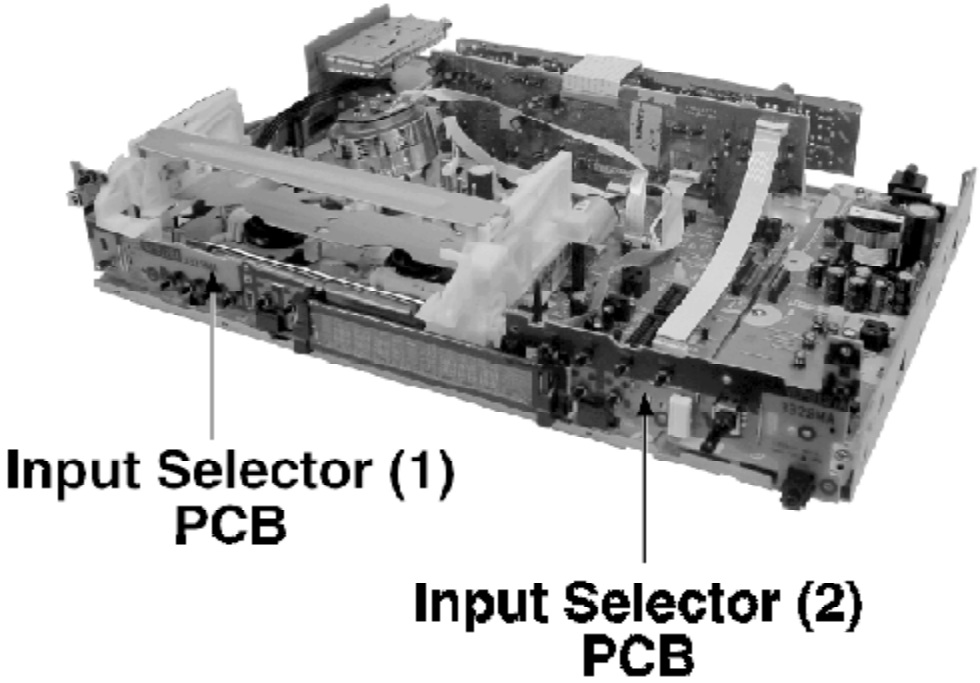
1. **Remove all the screws, catches and Input Selector (2) P.C.B.**
2. **Remove the volume knob from front panel. / Remove all the screws, catches and Input Selector (1) P.C.B.**



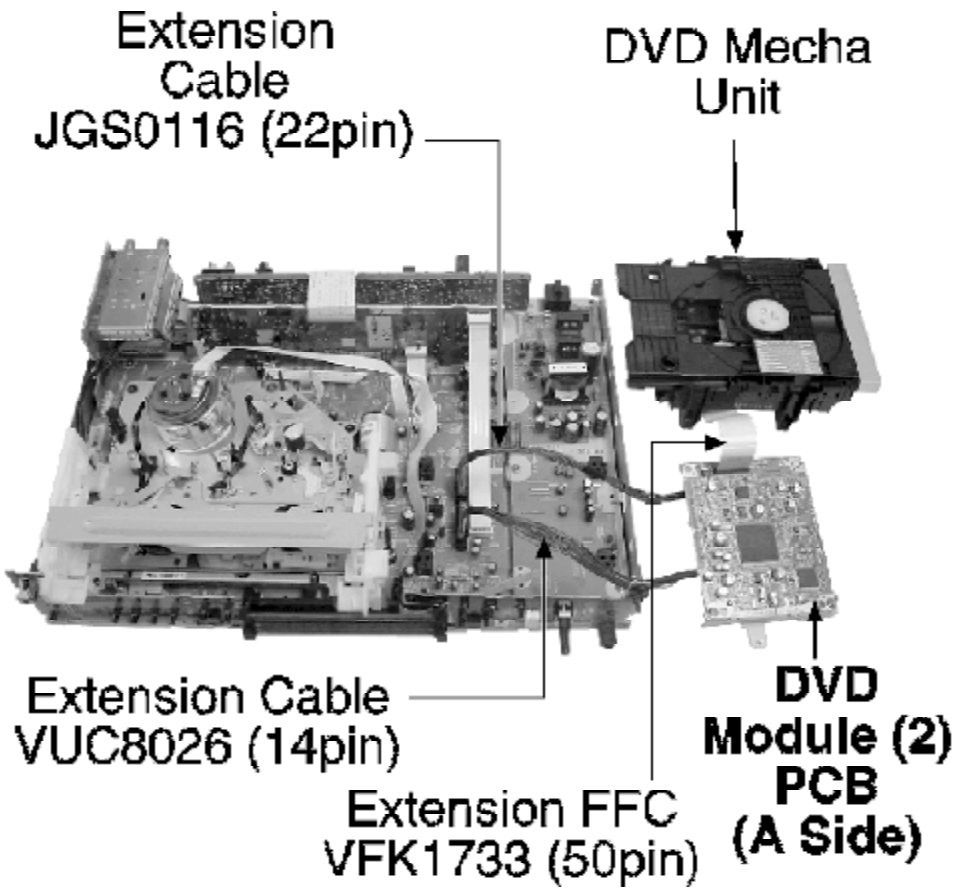
3. **Replace the VTR Macha Unit on the Main P.C.B.**
4. **Attach all the FFC.**
5. **Reconnect back all the connectors.**
6. **Connect Power P.C.B and Main P.C.B. with connect back the connector (P6601).**



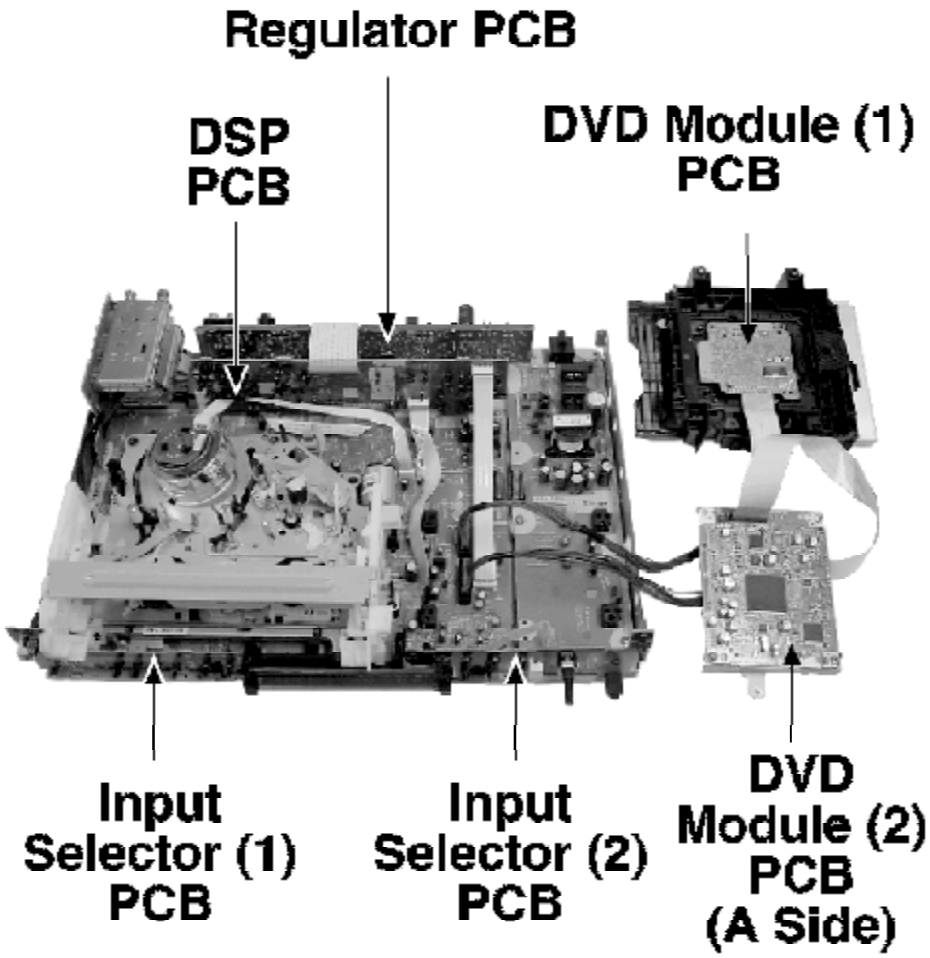
7. Place the Input Selector (1) P.C.B. and Input Selector (2) P.C.B. on the Main P.C.B.



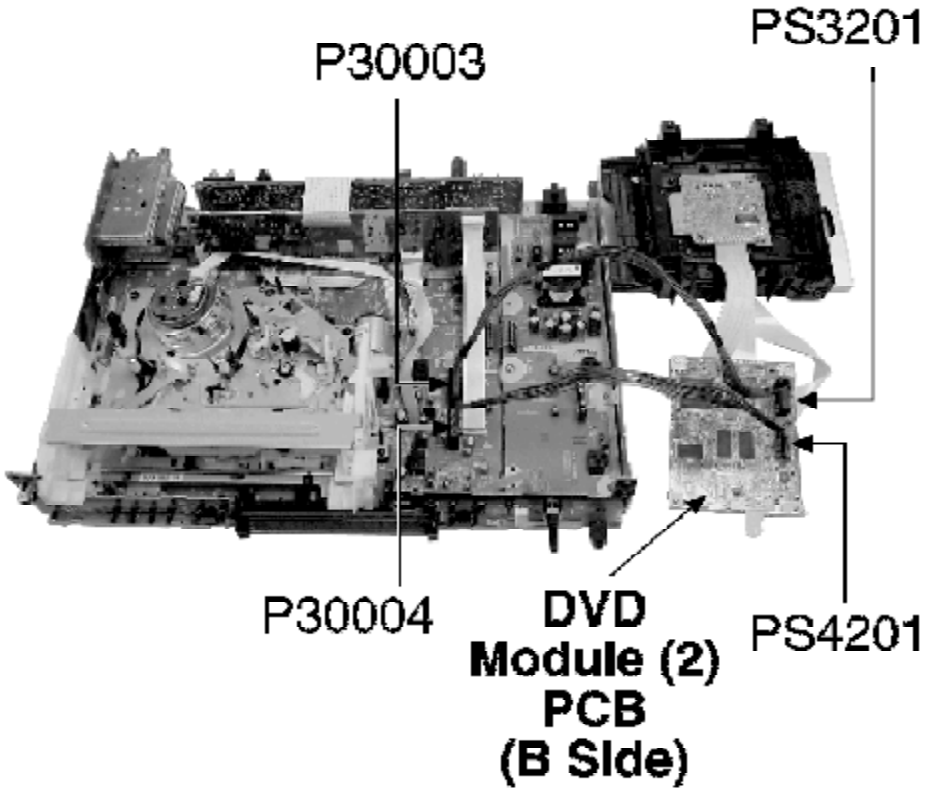
8. **Connect the Extension FFC (VFK1733) between DVD Mecha Unit and DVD Module (2) P.C.B.**
9. **Connect the Extension Cable (JGS0116) and (VUC8026) between Main P.C.B. and DVD Module (2) P.C.B.**



10. Check the DSP P.C.B., Regulator P.C.B., DVD Module (1) P.C.B. and DVD Module (2) P.C.B.(A Side), Input Selector (1)/(2) P.C.B. as diagram shown below.

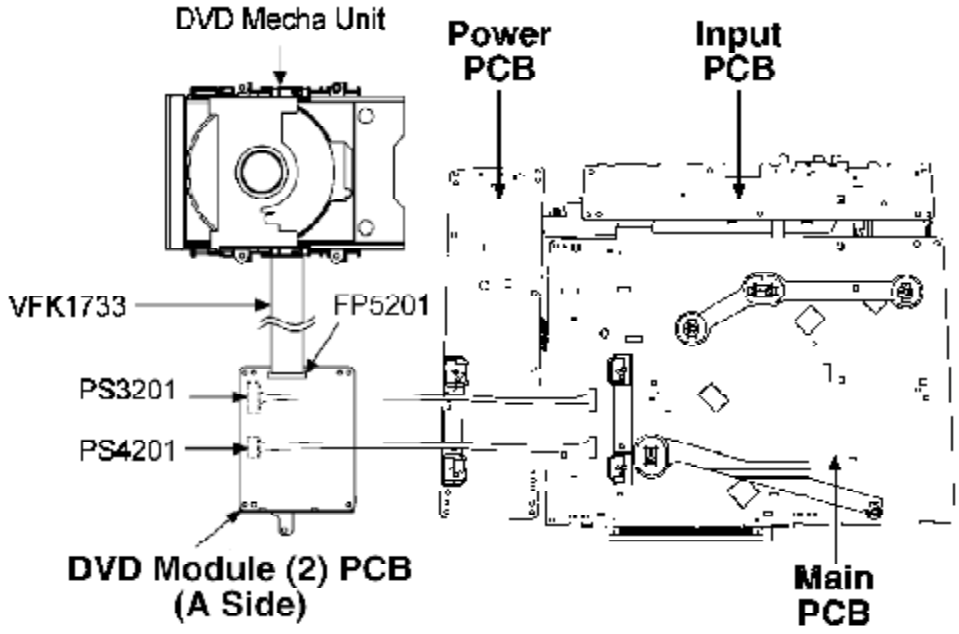


11. Flip over the DVD Module (2) P.C.B. to proceed checking the DVD Module (2) P.C.B. (B Side) as diagram shown below.



12. Turn over solder side of the Main P.C.B., Input P.C.B. and Power P.C.B.

13. Proceed checking the Main P.C.B., Input P.C.B. and Power P.C.B. as diagram shown below.



18. Illustration of IC's, Transistors and Diodes

19. Terminal Function of IC's

19.1. IC101(C2CBGF000166):Micro Controller

PIN No.	Mark	I/O	Function
1	NC	O	No Connection (Output L)
2	NC	O	No Connection (Output L)
3	NC	O	No Connection (Output L)
4	NC	O	No Connection (Output L)
5	NC	O	No Connection (Output L)
6	NC	O	No Connection (Output L)
7	NC	O	No Connection (Output L)
8	BYTE	I	VSS (GND)
9	CNVss	-	VSS (GND)
10	NC	O	No Connection (Output L)
11	NC	O	No Connection (Output L)
12	RESET	I	System Reset Input
13	XOUT	O	Main clock output (10MHz)
14	Vss	-	GND (0V)
15	XIN	I	Main clock input (10MHz)
16	Vcc	-	Power supply (5V)
17	/NMI	I	Connect to VCC, external interrupt I/P

PIN No.	Mark	I/O	Function
18	AC	I	AC failure detect input
19	NC	O	No Connection (Output L)
20	NC	O	No Connection (Output L)
21	NC	O	No Connection (Output L)
22	NC	O	No Connection (Output L)
23	NC	O	No Connection (Output L)
24	NC	O	No Connection (Output L)
25	NC	O	No Connection (Output L)
26	NC	O	No Connection (Output L)
27	NC	O	No Connection (Output L)
28	NC	O	No Connection (Output L)
29	NC	O	No Connection (Output L)
30	NC	O	No Connection (Output L)
31	FL_OUT	O	Output data for flash writing (Output data to writer)
32	FL_IN	I/O	Input data for flash writing (Input data from writer)
33	FL_CLK	I/O	Clock signal for flash writing (Clock signal from writer)
34	FL_BUSY	O	Busy signal for flash writing (Busy signal to writer)
35	AV_DO	O	Data output to DVD OPECON
36	AV_DI	I	Data input from DVD OPECON
37	AV_CLK	I	Clock input from DVD OPECON
38	AV_CS	O	Chip select signal from DVD OPECON
39	JOG_B	I	Signal B from Volume JOG
40	JOG_A	I	Signal A from Volume JOG
41	/EPM	I/O	For flash micro-p (Pull to GND with resistor)
42	NC	O	No Connection (Output L)
43	NC	O	No Connection (Output L)
44	NC	O	No Connection (Output L)
45	NC	O	No Connection (Output L)
46	CE	I/O	For flash micro-p (Pull to VCC with resistor)
47	PH_SW	I	Headphone detection switch (H=Phone In)
48	NC	O	No Connection (Output L)
49	TUNER_CTF	O	Tuner signal selection switch (H=select TUNER)
50	DVD_CTR	O	DVD signal selection switch (L=select DVD)

PIN No.	Mark	I/O	Function
51	VOL_CS	O	4ch VOL control LAT signal
52	VOL_DA	O	4ch VOL control DATA signal
53	VOL_CK	O	4ch VOL control CLOCK signal
54	HP_MUTE	I/O	Headphone mute signal (L= Mute ON)
55	ECS	O	LAT signal for the EEPROM
56	EDA	I/O	DATA signal for the EEPROM
57	EDK	O	CLOCK signal for the EEPROM
58	NC	O	No Connection (Output L)
59	F_MUTE	O	MUTE signal for Front channels (FL, FR) (L =Mute ON)
60	SW_MUTE1	O	Subwoofer Mute 1 (L=Mute ON)
61	C/F_1/2	O	Center focus1/2
62	Vcc	-	Power supply 5.0V
63	C/F_ON/ OFF	O	Center focus ON/OFF
64	Vss	-	GND (0V)
65	DVD_MUTE	O	Mute signal for DVD output
66	PCONT	O	Control signal for the Power Control Relay
67	AMP_MUTE (HP_CTR)	O	MUTE signal for Amplifier (H= Mute ON)
68	LINE MUTE	O	MUTE signal for the Line output (H=Mute ON)
69	VOL ATT	O	Volume Attenuation
70	NC	O	No Connection (Output L)
71	S/C_MUTE	O	Signal for Surround Mute (L= Mute ON)
72	NC	O	No Connection (Output L)
73	NC	O	No Connection (Output L)
74	DSP_RST	O	RST signal for the DSP signal
75	DSP_DA	O	Data signal for the DSP
76	DSP_CLK	O	Clock signal for the DSP
77	DSP_CS	O	Latch signal for the DSP
78	DC_DET	O	Signal from the DC detection circuit
79	PLL_CE	O	Latch signal for the PLL Tuner
80	PLL_CK	O	CLOCK signal for the PLL Tuner
81	PLL_DO	I/O	Data signal for the PLL Tuner

PIN No.	Mark	I/O	Function
82	PLL_DI	O	Data input for the PLL Tuner
83	SD	I/O	Signal detect signal from PLL Tuner
84	NC	O	No Connection (Output L)
85	NC	O	No Connection (Output L)
86	NC	O	No Connection (Output L)
87	NC	O	No Connection (Output L)
88	NC	O	No Connection (Output L)
89	NC	O	No Connection (Output L)
90	NC	O	No Connection (Output L)
91	NC	O	No Connection (Output L)
92	NC	O	No Connection (Output L)
93	DES3	A-D	Region setting for DVD
94	DES2	A-D	Region setting for DVD
95	DES1	A-D	Region setting for DVD
96	AVss	-	Analog power supply input
97	NC	O	No Connection (Output L)
98	VREF	I	Reference voltage input
99	AVcc	-	Analog power supply input
100	NC	O	No Connection (Input L)

20. Block Diagram

21. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S901

: Disc Stop switch

S902

: Disc Play switch

S903

: Channel Up switch

S904

: Channel Down switch

S905

: Progressive switch

S906

: Open/Close switch

S908

: Selector switch

S911

: T. FF switch

S912

: Power switch

S913

: Rec/OTR switch

S914

: Timer Rec. switch

S915

: Power switch

S918

: Eject switch

S919

: T. Stop switch

S9001

: T. Rew switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

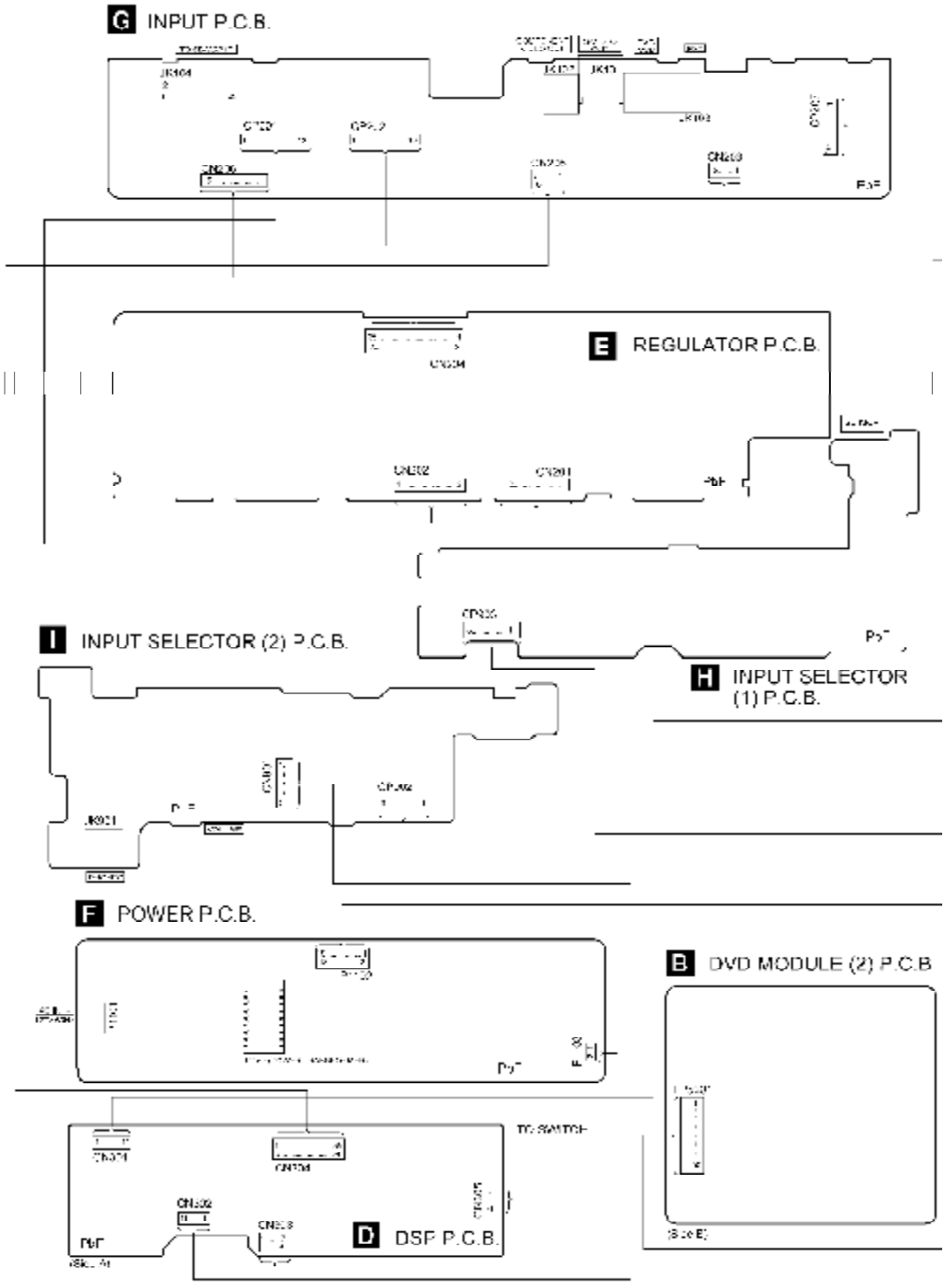
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

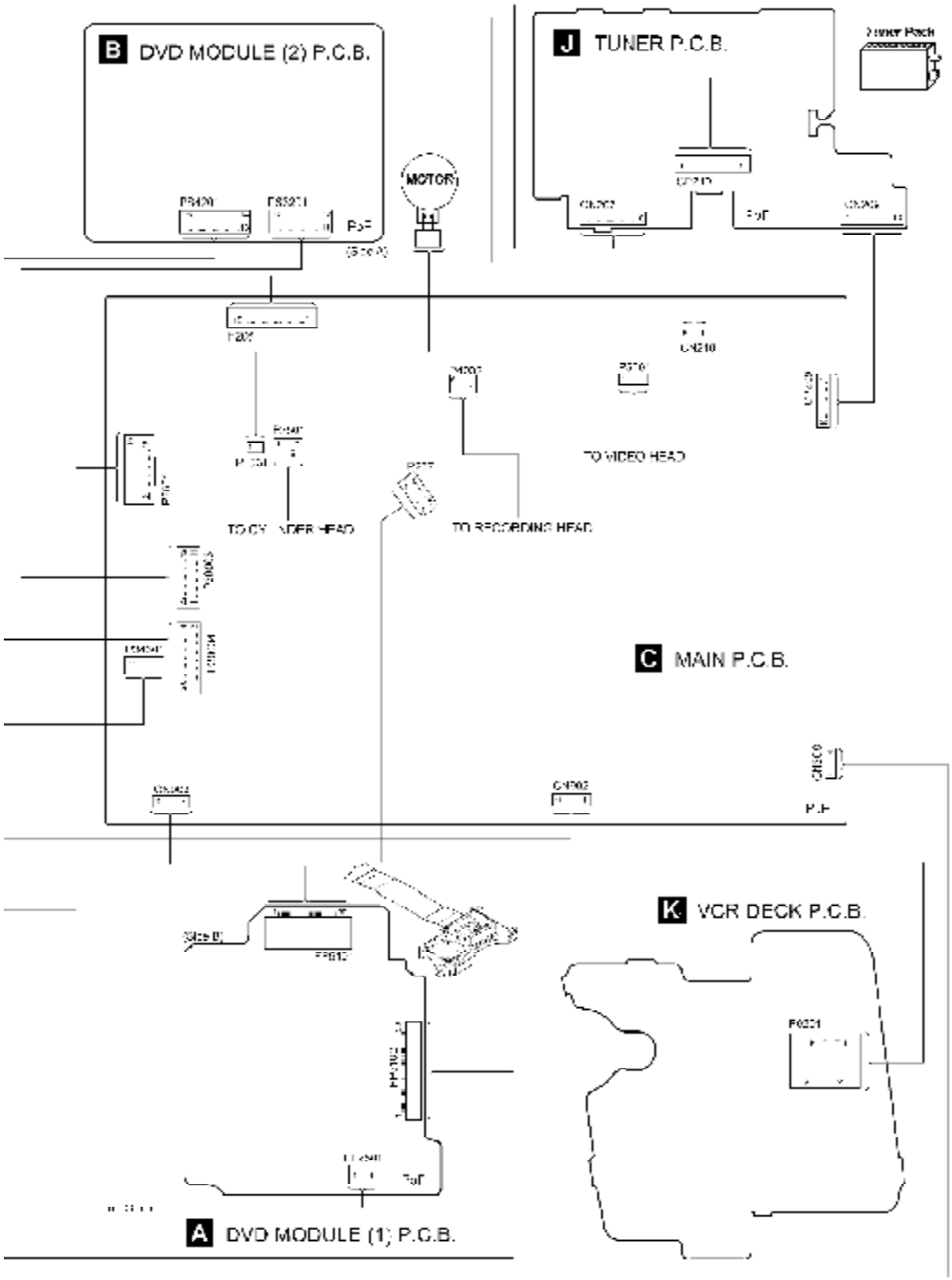
- Cover the parts boxes made of plastics with aluminium foil.

- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

22. Printed Circuit Board

23. Wiring Connection Diagram


G INPUT P.C.B.
E REGULATOR P.C.B.
I INPUT SELECTOR (2) P.C.B.
H INPUT SELECTOR (1) P.C.B.
F POWER P.C.B.
B DVD MODULE (2) P.C.B
D DSP P.C.B.



24. Parts Location and Replacement Parts List

Notes:

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors),

etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.

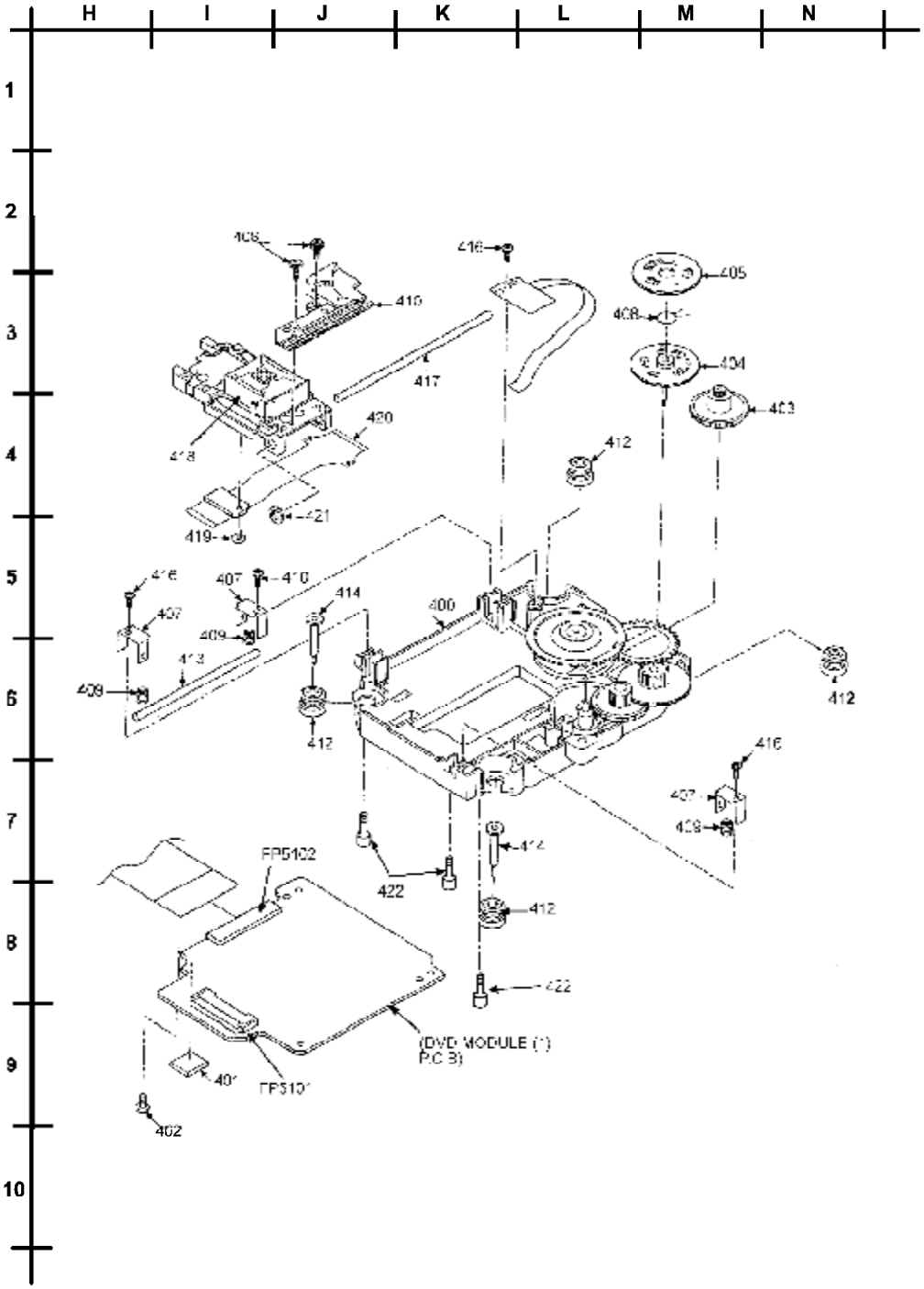
- The "(SF)" mark denotes the standard part.

- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditio Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplifie Chinese

24.1. Traverse Deck Mechanism

24.1.1. Traverse Mechanism Parts Location


H
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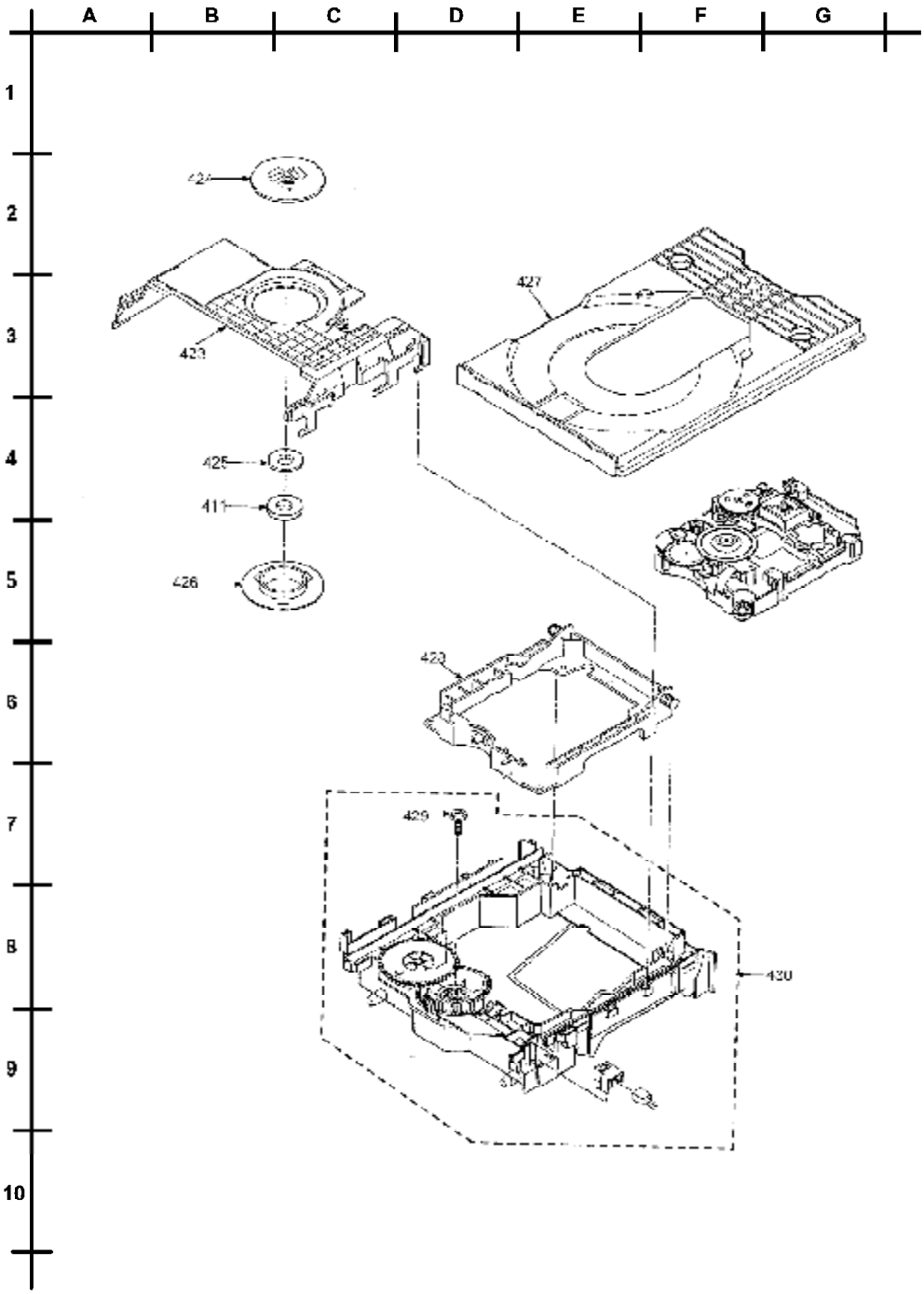
416
407
409
412
422
FP5102
412
422
(DVD MODULE (1)
P.C.B)
FP5101
402

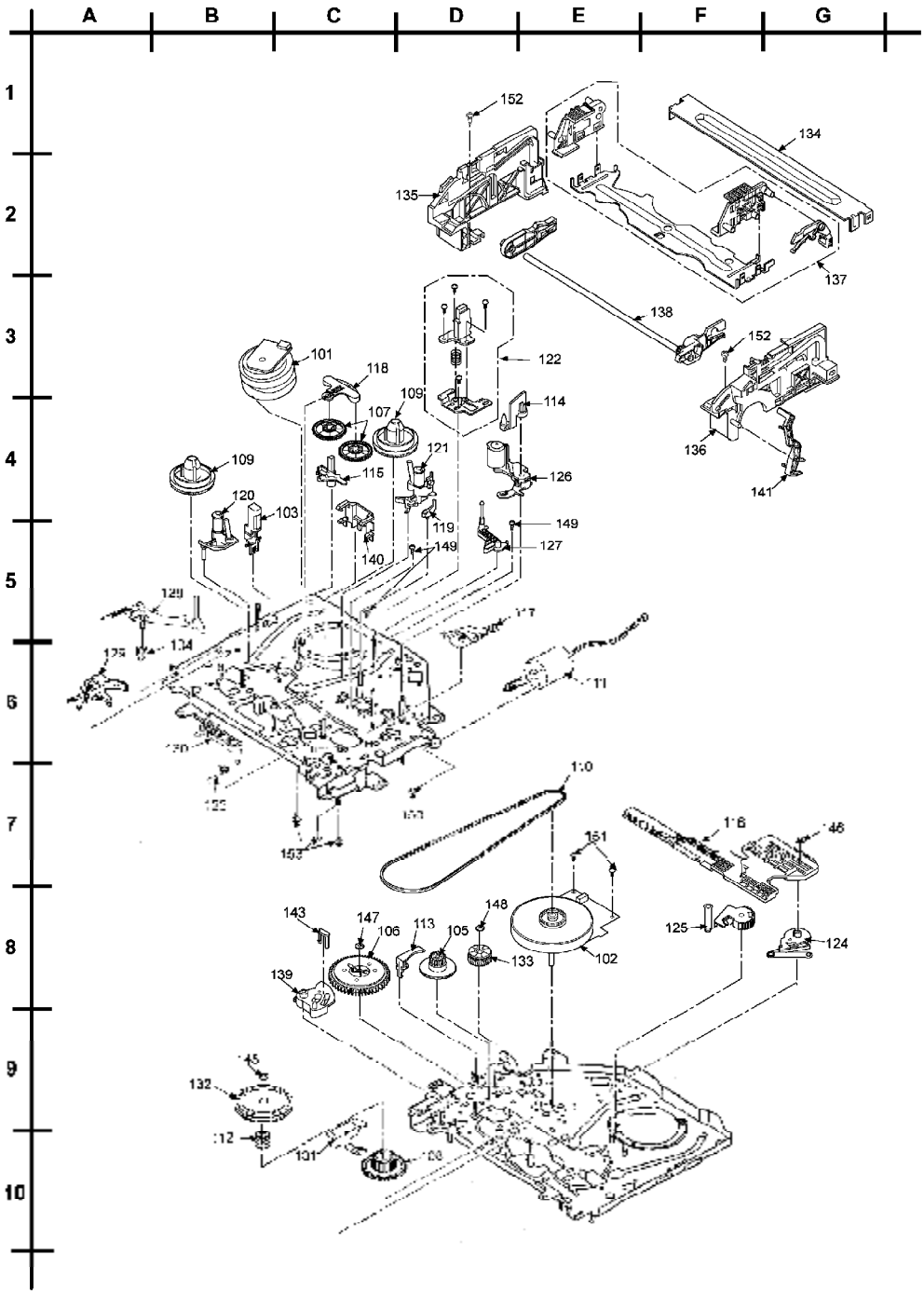


24.1.2. Traverse Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
400	RXQ0742B	SPINDLE MOTOR ASS'Y	[SPC]
401	RMG0558-K	P.C.B. RUBBER	[M]
402	RHD20060	PCB SCREW	[M]
403	RDG0499	TRV GEAR A	[M]
404	RDG0500	TRV GEAR B	[M]
405	RDG0501	TRV GEAR C	[M]
406	RHD17036	DRIVE RACK SCREW	[M]
407	RMC0415	ADJUST SPRING HOLDER	[M]
408	RME0319	TRV GEAR SPRING	[M]
409	RME0320	ADJUSTMENT SPRING	[M]
410	RMM0251-1	TRAVERSE DRIVE RACK	[M]
411	JSM0048	MAGNET	[M]
412	RMG0545-A	FLOATING RUBBER	[M]
413	RMS0711	GUIDE SHAFT	[M]
414	RMS0712-1	FIXED PIN	[M]
416	VHD1224-C	SCREW	[M]
417	RMS0710	DRIVE SHAFT	[M]
418	RAF3023A	4.17H OPU WITH PACKI	[M]
419	RHD14095	FPC SCREW	[M]
420	RJB2309A	INTERFACE FPC	[M]
421	RMG0561-T	CUSHION RUBBER	[M]
422	RHD17029	SHAFT ADJUST SCREW	[M]
423	RMR1445-K	CLAMP PLATE	[SPC]
424	RMR1447-X	MEGNET HOLDER	[M]
425	XWG6FFY	BACK YOKE	[M]
426	RMR1446-X	CLAMPER	[M]
427	RGQ0280-K3	TRAY	[M]
428	RMR1323-K3	MIDDLE CHASSIS	[M]
429	XTW3+12S	SCREW	[M]
430	RXQ0748	MECHA CHASSIS UNIT	[M]

24.2. Cassette Mechanism

24.2.1. Cassette Mechanism Parts Location

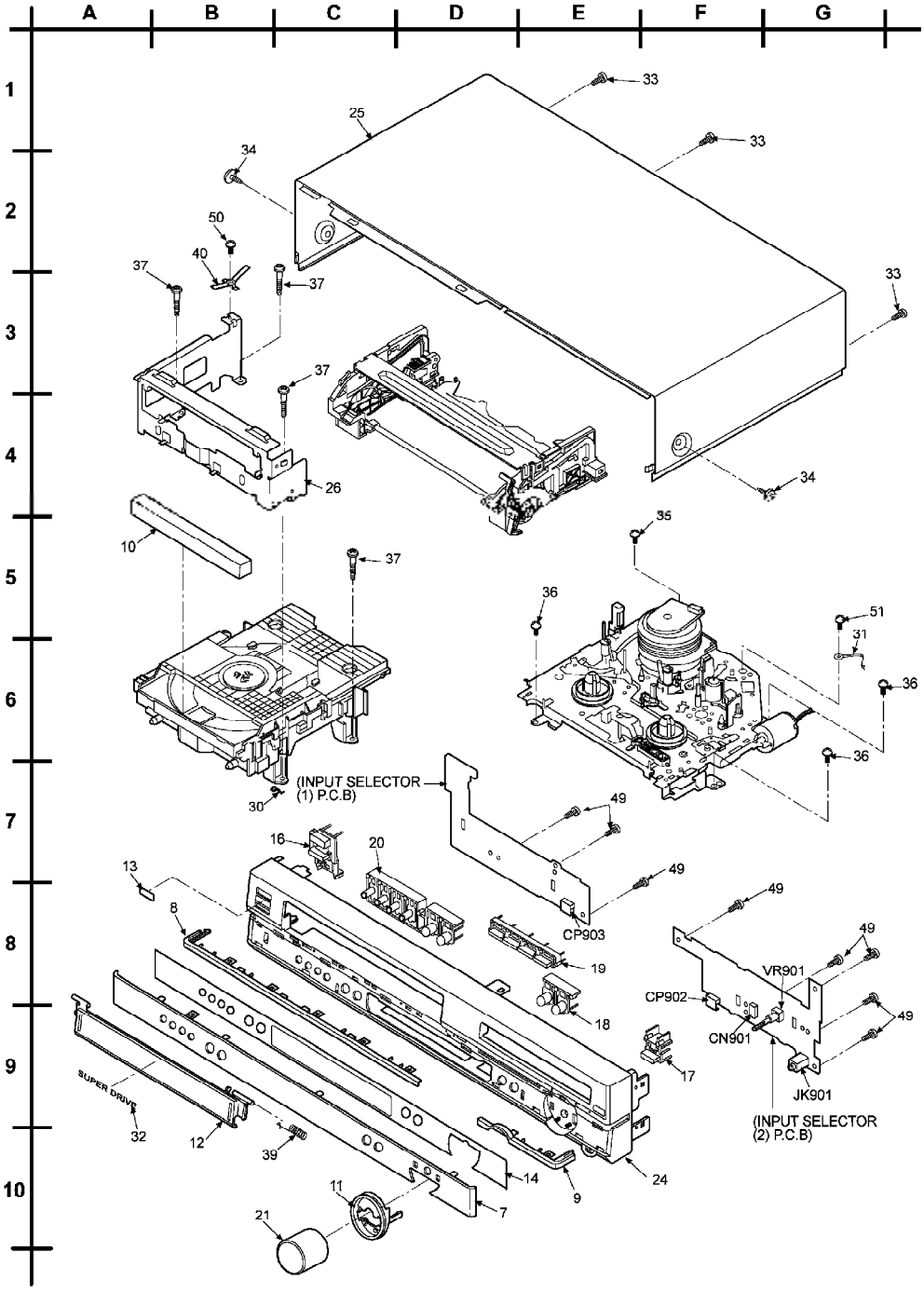


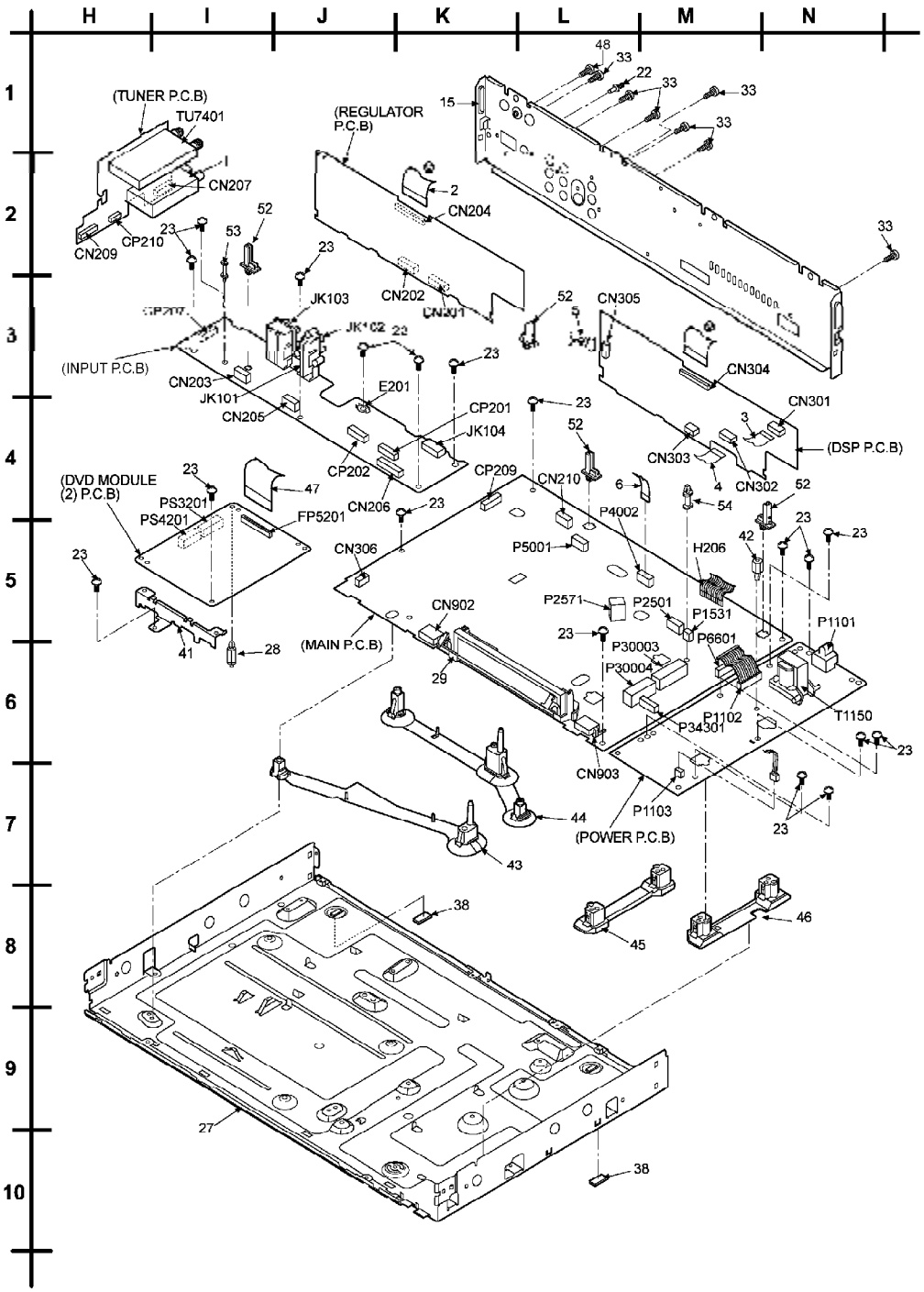
24.2.2. Cassette Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	VEG1608-D	CYLINDER UNIT	[M]
102	VEM0750	CAPSTAN UNIT	[M]
103	L1AZ00000004	FE HEAD UNIT	[M]
104	VDB1431	TENSION ARM BOSH	[M]
105	VDG1510	INTERMEDIATE GEAR	[M]
106	VDG1511	MAIN CAM GEAR	[M]
107	VDG1512	IDLER GEAR	[M]
108	VDG1514	CHANGE GEAR	[M]
109	VDR0372	REEL TABLE	[M]
110	VDV0391	CAPSTAN BELT	[M]
111	VEM0751	LOADING MOTOR UNIT	[M]
112	VMB3550	CHANGING GEAR SPRING	[M]
113	VMD4249	WORN BEARING	[M]
114	VMD4252	OPENER PIECE	[M]
115	VMD4253	LED PRISM	[M]
116	VML3624	MAIN LEVER	[M]
117	VML3626	PINCH CHARGE ARM	[M]
118	VML3632	IDLER ARM	[M]
119	VMX3092	P4 CAP	[M]
120	VXA7105	S. SHAFT HOLDER UNIT	[M]
121	VXA7106	T. SHAFT HODLER UNIT	[M]
122	L1AE00000036	AC HEAD UNIT	[M]
123	VMB3548	T. BRAKE SPRING	[M]
124	VXL3107	S. LOADING ARM UNIT	[M]
125	VXL3108	T. LOADING ARM UNIT	[M]
126	VXL3109	SPINCH ARM UNIT	[M]
127	VXL3110	P5 ARM UNIT	[M]
128	VXL3111	TENSION ARM UNIT	[M]
129	VXL3112	S. BRAKE ARM UNIT	[M]
130	VXL3113	T. BRAKE ARM UNIT	[M]
131	VXL3124	CHANGING LEVER UNIT	[M]
132	VXP2133	CENTER CLUTCH UNIT	[M]
133	VXP2168	TORQUE CLUTCH UNIT	[M]
134	VMA0L25	TOP PLATE	[M]
135	VMD4255	SIDE PLATE L	[M]
136	VXA7109	SIDE PLATE R UNIT	[M]
137	VXA7110	CASS HOLDER UNIT	[M]
138	VXL3160	MIAN SHAFT UNIT	[M]
139	VXA7311	SECTOR GEAR UNIT	[M]
140	VMD4344	10P FPC HLLDER	[M]
141	VML3706	OPENER LEVER	[M]
143	VMD4622	S-DETECT AC	[M]
145	VMX3196	CUT WASHER C	[M]
146	VMX3114	CUT WASHER	[M]
147	VMX2699	CUT WASHER	[M]
148	VMX2208	CUT WASHER	[M]
149	XTN26+7J	SCREW	[M]
150	XSN3+35	SCREW	[M]
151	XTV26+5F	SCREW	[M]
152	XTV26+8FR	SCREW	[M]
153	VHD1117	SCREW	[M]

24.3. Cabinet

24.3.1. Cabinet Parts Location





24.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	ENG06701Q	FM TUNER PACK	[M]
2	REEX0207	35P DSP-REG FFC	[M]
3	REEX0208	11P DSP-MAIN FFC	[M]
4	REEX0209-1	11P DSP PANEL FFC	[M]
5	REXX0326	4P DSP-MAIN WIRE	[M]
6	REXX0367	3P WIRRE (MAIN)	[M]
7	RGKX0164-S	FRONT ORNAMENT	[M]
8	RGKX0165-K	STRIPE ORNAMENT L	[M]
9	RGKX0166-K	STRIPE ORNAMENT R	[M]
10	RGKX0167-S	DVD LID	[M]
11	RGKX0168-S	VOLUM RING	[M]
12	RGKX0169-S	VIDEO LID	[M]
13	RGKX0176-S	SENSOR PANEL	[M]
14	RGKX0190-K	COLOR FILTER	[M]
15	RGRX0024-A1	REAR PANEL	[M]
16	RGUX0492-S	POWER BUTTON	[M]
17	RGUX0493-S	DVD EJECT BUTTON	[M]
18	RGUX0494-K	DVD FUNCTION BUTTON	[M]
19	RGUX0495-S	DVD CONTROL BUTTON	[M]
20	RGUX0496-S	VIDEO FUNCTION BTN	[M]
21	RGWX0074-S	VOLUME KNOB	[M]
22	RHD30070	EARTH TERMINAL	[M]
23	RHD30090	SCREW	[M]
24	RKMX0079-S	FRONT CABINET	[M]
25	RKMX0080-S	TOP CAB CABINET	[M]
26	RMAX0062	FRONT ANGLE	[M]
27	RMKX0068-1	BOTTOM CHASSIS	[M]
28	RMR1359-W	B/E PWB HOLDER	[M]
29	RYQX0085-K	FL UNIT	[M]
30	VEE0S80-N	2P FFC	[M]
31	VEE0U97	EARTH WIRE	[M]
32	VGB0554	SUPER DRIVE BADGE	[M]
33	VHD0690	SCREW (REAR P)	[M]
34	VHD1094	SCREW (TOP CAB)	[M]
35	VHD1452-1	SCREW (R4)	[M]
36	VHD1453-1	SCREW (R4)	[M]
37	VHD1539	SCREW (DL1)	[M]
38	VKA0364	LEG FELT	[M]
39	VMB2521	BLINDER SPRING	[M]
40	VMC1534	EARTH SPRING (T)	[M]
41	VMP7322	DVD ANGLE	[M]
42	VMX1636	PCB SPACER	[M]
43	VMX3115	MECHA SPACER (F)	[M]
44	VMX3229	MECHA SPACER (B)	[M]
45	VMX3230	DVD SPACER (L)	[M]
46	VMX3231	DVD SPACER (R)	[M]
47	VWJ1607	50P FFC	[M]
48	XSB3+5FC	SCREW	[M]
49	XTBS26+10J	SCREW	[M]
50	XTV26+5FR	TAPPING SCREW M26+6	[M]
51	XTW3+10PR	SCREW (R4)	[M]
52	RMN0203	PCB SUPPORT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
53	RMN0575	PCB SPACER	[M]
54	RMR1359-W	PCB SPACER	[M]

24.4. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3406A-1N	DVD MODULE (1) P.C.B. (SIDE: A)	[M](RTL)
	REP3406A-1N	DVD MODULE (1) P.C.B. (SIDE: B)	[M](RTL)
	REPX0371A	DVD MODULE (2) P.C.B. (SIDE: A)	[M](RTL)
	REPX0371A	DVD MODULE (2) P.C.B. (SIDE: B)	[M](RTL)
	VEP06F25A-1	MAIN P.C.B.	[M](RTL)
	VEP03G36A	DSP P.C.B. (SIDE: A)	[M](RTL)
	VEP03G36A	DSP P.C.B. (SIDE: B)	[M](RTL)
	VEP7A58A	REGULATOR P.C.B.	[M](RTL)
	VEP7A59A	TUNER P.C.B.	[M](RTL)
	VEP01930A	POWER P.C.B.	[M](RTL)
	VEP03G37A	INPUT P.C.B.	[M](RTL)
	VEP9127A	INPUT SELECTOR (1) P.C.B.	[M](RTL)
	VEP9128A	INPUT SELECTOR (2) P.C.B.	[M](RTL)
	VEP02578A	VCR DECK P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC101	C2CBGF000166	IC MICRO CONTROLLER	[M]
IC102	C0JBAS000008	IC ANALOG SWITCH	[M]
IC201	C2HBZC000013	IC DSP	[M]
IC201	C1AB00001472	IC CAPSTAN DRIVE	[M]
IC302	KIA4558FEL	IC DUAL OP-AMP	[M]
IC371	M62444FPE1	IC 4CH VOLUME	[M]
IC372	C0JBAR000292	IC ANALOG SW	[M]
IC401	C0AABB000055	IC AMP	[M]
IC701	C0ABCB000040	IC QUAD OP AMP	[M]
IC751	M62456FPE1	IC BLT	[M]
IC1200	C0DAEJC00003	IC SHUNT REGULATOR	[M]
IC1511	B3NAA0000049	IC T-REEL SENSOR	[M]
IC1512	B3NAA0000049	IC S-REEL SENSOR	[M]
IC2001	MN103S26EGA	IC SODC	[M]
IC2101	C0JBAS000116	IC LOGIC	[M]
IC2501	C0GBG0000033	IC MOTOR DRIVE	[M]
IC2501	C1AB00001479	IC CYL DRIVE	[M]
IC2502	C0DBZJG00005	IC REGULATOR	[M]
IC3001	C1AB00001506	IC AV DECORDER	[M]
IC3001	MN6775511	IC AV DEC	[M]
IC3061	C3ABPG000068	IC 64 SDRAM	[M]
IC3062	C3ABPG000068	IC 64 SDRAM	[M]
IC3201	C1AB00001192	IC SWITCHING	[M]
IC4211	C0FBBK000036	IC AUDIO DAC	[M]
IC4501	AN3663FBP-AV	IC AUDIO	[M]
IC5201	AN22030A-VT	IC FEP	[M]
IC6001	C2CBHF000262	IC VIDEO SYSCON	[M]
IC6201	C0EBH0000172	IC RESET	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC6201	MN102H60GFD	IC MICRO-P	[M]
IC6211	C0EBE0000070	IC RESET	[M]
IC6251	C0CBCBE00003	IC RESET	[M]
IC6252	C0DBFFG00004	IC VOLTAGE REGULATOR	[M]
IC6253	C0DBCGE00002	IC VOLTAGE REGULATOR	[M]
IC6301	C0DBCHD00002	IC REGULATOR	[M]
IC6301	RFKFMA66M320	IC 16M FLASH ROM	[SPC]
IC6561	C1DB00000582	IC CLOCK GENERATOR	[M]
IC31125	C0DAEZG00010	IC REGULATOR	[M]
IC31151	C0CBCHG00001	IC REGULATOR	[M]
IC33501	C9ZB00000377	IC MICRO-CONTROLLER	[M]
IC34301	C0ABBB000108	IC AUDIO-AMP	[M]
IC36001	MN101C35DPE	IC OPERATION CONTROL	[M]
IC36002	C0EBE0000198	IC PROTECTOR	[M]
		TRANSISTORS	
Q101	B1GACFLL0005	TRANSISTOR	[M]
Q102	B1GBCFJN0004	TRANSISTOR	[M]
Q103	B1GBCFJN0004	TRANSISTOR	[M]
Q104	B1GBCFJN0004	TRANSISTOR	[M]
Q201	B1ABCF000011	TRANSISTOR	[M]
Q202	B1ABCF000011	TRANSISTOR	[M]
Q203	KRA102STA	TRANSISTOR	[M]
Q204	KRA111STA	TRANSISTOR	[M]
Q205	B1GBCFJN0004	TRANSISTOR	[M]
Q301	B1GFGCAA0001	TRANSISTOR	[M]
Q302	B1GFGCAA0001	TRANSISTOR	[M]
Q303	B1GFGCAA0001	TRANSISTOR	[M]
Q304	UNR211100L	TRANSISTOR	[M]
Q305	B1GBCFJN0004	TRANSISTOR	[M]
Q401	KRA111STA	TRANSISTOR	[M]
Q403	B1ABCF000011	TRANSISTOR	[M]
Q404	B1GFGCAA0001	TRANSISTOR	[M]
Q405	KRA111STA	TRANSISTOR	[M]
Q406	B1ABCF000011	TRANSISTOR	[M]
Q407	KRA111STA	TRANSISTOR	[M]
Q408	B1GFGCAA0001	TRANSISTOR	[M]
Q409	KRA104STA	TRANSISTOR	[M]
Q410	B1GFGCAA0001	TRANSISTOR	[M]
Q701	B1GFGCAA0001	TRANSISTOR	[M]
Q702	KRA111STA	TRANSISTOR	[M]
Q703	B1GFGCAA0001	TRANSISTOR	[M]
Q781	KRA111STA	TRANSISTOR	[M]
Q782	KTD1304TA	TRANSISTOR	[M]
Q790	KTC3875GRTA	TRANSISTOR	[M]
Q791	KTC3875GRTA	TRANSISTOR	[M]
Q801	KTC2026	TRANSISTOR	[M]
Q806	B1ADCF000001	TRANSISTOR	[M]
Q807	KTA1046	TRANSISTOR	[M]
Q810	B1GDCFJJ0002	TRANSISTOR	[M]
Q811	2SB14170QA	TRANSISTOR	[M]
Q812	B1ABCF000011	TRANSISTOR	[M]
Q813	2SB621ARSTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q814	B1ABCF000011	TRANSISTOR	[M]
Q815	B1GBCFJN0004	TRANSISTOR	[M]
Q1150	B1DEDQ000014	TRANSISTOR	[M]
Q1151	2SC3311ASA	TRANSISTOR	[M]
Q1152	2SC3311ASA	TRANSISTOR	[M]
Q1153	B1DEDQ000014	TRANSISTOR	[M]
Q1200	B3PBA0000078	TRANSISTOR	[M] ⚠
Q1230	2SD1819A0L	TRANSISTOR	[M]
Q1341	B1AAGD000006	TRANSISTOR	[M]
Q1352	B1AAGD000006	TRANSISTOR	[M]
Q1354	B1AAGD000006	TRANSISTOR	[M]
Q1382	B1AAGD000006	TRANSISTOR	[M]
Q1501	PNB2302MF	TRANSISTOR	[M]
Q1502	PNB2302MF	TRANSISTOR	[M]
Q2001	2SD1819A0L	TRANSISTOR	[M]
Q2045	UNR511M00L	TRANSISTOR	[M]
Q3001	2SB1218A0L	TRANSISTOR	[M]
Q3002	2SB1218A0L	TRANSISTOR	[M]
Q3050	2SD1819A0L	TRANSISTOR	[M]
Q3111	2SB1218ARL	TRANSISTOR	[M]
Q3116	2SB1218ARL	TRANSISTOR	[M]
Q3121	2SB1218ARL	TRANSISTOR	[M]
Q3201	2SB1218A0L	TRANSISTOR	[M]
Q3212	2SB1218ARL	TRANSISTOR	[M]
Q3217	2SB1218ARL	TRANSISTOR	[M]
Q3222	2SB1218ARL	TRANSISTOR	[M]
Q3501	2SD1819A0L	TRANSISTOR	[M]
Q3853	2SC229500L	TRANSISTOR	[M]
Q4081	2SD0602ARL	TRANSISTOR	[M]
Q4082	2SD114900L	TRANSISTOR	[M]
Q4083	2SD0601A0L	TRANSISTOR	[M]
Q4084	2SB0710A0L	TRANSISTOR	[M]
Q4201	2SD199600A	TRANSISTOR	[M]
Q4202	2SD13280VL	TRANSISTOR	[M]
Q4203	2SD13280VL	TRANSISTOR	[M]
Q5111	B1BDBF000004	TRANSISTOR	[M]
Q5115	B1BDBF000004	TRANSISTOR	[M]
Q5271	UNR521100L	TRANSISTOR	[M]
Q6215	UNR521200L	TRANSISTOR	[M]
Q6305	2SD0601A0L	TRANSISTOR	[M]
Q6306	2SD0601A0L	TRANSISTOR	[M]
Q33001	B1AAGD000006	TRANSISTOR	[M]
Q33011	2SD12730G	TRANSISTOR	[M]
Q34003	2SD0601A0L	TRANSISTOR	[M]
Q34004	2SB0709A0L	TRANSISTOR	[M]
Q34302	2SD1819A0L	TRANSISTOR	[M]
Q36003	2SD0601A0L	TRANSISTOR	[M]
Q36004	2SD0601A0L	TRANSISTOR	[M]
QR206	B1GBCFJN0004	TRANSISTOR	[M]
QR207	B1GBCFJN0004	TRANSISTOR	[M]
QR1230	UNR511200L	TRANSISTOR	[M]
QR3151	UNR521300L	TRANSISTOR	[M]
QR3401	UNR521200L	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
QR4081	UNR511100L	TRANSISTOR	[M]
QR4082	UNR521300L	TRANSISTOR	[M]
QR4202	UNR521300L	TRANSISTOR	[M]
QR4204	UNR521300L	TRANSISTOR	[M]
QR4205	UNR511100L	TRANSISTOR	[M]
QR4206	UNR511300L	TRANSISTOR	[M]
QR4504	UNR511300L	TRANSISTOR	[M]
QR4505	UNR521600L	TRANSISTOR	[M]
QR4506	UNR521600L	TRANSISTOR	[M]
QR5221	UNR212100L	TRANSISTOR	[M]
QR5241	UNR511M00L	TRANSISTOR	[M]
QR33523	UNR521200L	TRANSISTOR	[M]
QR33574	UNR221200L	TRANSISTOR	[M]
QR34301	UNR521100L	TRANSISTOR	[M]
QR34303	UNR521100L	TRANSISTOR	[M]
QR34304	UNR511500L	TRANSISTOR	[M]
QR34410	UNR521500L	TRANSISTOR	[M]
QR34411	UNR511500L	TRANSISTOR	[M]
QR34419	UNR521500L	TRANSISTOR	[M]
QR36001	UNR521200L	TRANSISTOR	[M]
QR36002	UNR521200L	TRANSISTOR	[M]
QR36006	UNR221500L	TRANSISTOR	[M]
QR36007	UNR521100L	TRANSISTOR	[M]
QR36008	UNR521100L	TRANSISTOR	[M]
		DIODES	
D101	1SS380TE-17	DIODE	[M]
D102	1SS380TE-17	DIODE	[M]
D103	B0ACCK000005	DIODE	[M]
D104	MA2J72900L	DIODE	[M]
D201	B1ABCF000011	DIODE	[M]
D201	B0JCME000012	DIODE	[M]
D202	B0JCME000012	DIODE	[M]
D203	B0JCME000012	DIODE	[M]
D301	B0ACCK000005	DIODE	[M]
D302	B0ACCK000005	DIODE	[M]
D303	B0ACCK000005	DIODE	[M]
D304	B0BC5R000009	DIODE	[M]
D382	B0BC5R000009	DIODE	[M]
D383	UDZSTE176R8B	DIODE	[M]
D384	UDZSTE176R8B	DIODE	[M]
D401	B0BC5R000009	DIODE	[M]
D402	B0BC5R000009	DIODE	[M]
D701	B0BC5R000009	DIODE	[M]
D751	B0ACCK000005	DIODE	[M]
D752	B0ACCK000005	DIODE	[M]
D753	B0BC7R500001	DIODE	[M]
D754	B0BC7R500001	DIODE	[M]
D755	B0ACCK000005	DIODE	[M]
D756	B0ACCK000005	DIODE	[M]
D757	B0BC5R000009	DIODE	[M]
D791	B0ADCJ000020	DIODE	[M]
D792	B0ACCK000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D801	RL1N4003N02	DIODE	[M]
D802	RL1N4003N02	DIODE	[M]
D803	B0ADCC000002	DIODE	[M]
D804	B0ADCC000002	DIODE	[M]
D805	B0BC5R000009	DIODE	[M]
D806	RL1N4003N02	DIODE	[M]
D807	RL1N4003N02	DIODE	[M]
D808	RL1N4003N02	DIODE	[M]
D809	RL1N4003N02	DIODE	[M]
D810	UDZSTE1710B	DIODE	[M]
D811	RL1N4003N02	DIODE	[M]
D814	RL1N4003S-P	DIODE	[M]
D815	RL1N4003S-P	DIODE	[M]
D1110	D4EA7471A003	DIODE	[M]
D1140	B0KB00000013	DIODE	[M] ⚠
D1152	MA2C18500E	DIODE	[M]
D1155	MA165TA5VT	DIODE	[M]
D1157	MAZ40360MF	DIODE	[M]
D1180	MAZ751000C	DIODE	[M]
D1210	B0HAGM000006	DIODE	[M]
D1230	MA2C18500E	DIODE	[M]
D1240	B0JAME000025	DIODE	[M]
D1241	B0JAME000025	DIODE	[M]
D1250	B0JAMK000015	DIODE	[M]
D1251	B0JAMK000015	DIODE	[M]
D1260	B0JAPE000008	DIODE	[M]
D1261	B0JAPE000008	DIODE	[M]
D1270	MA2C18500E	DIODE	[M]
D1280	B0JAME000037	DIODE	[M]
D1290	B0JAME000025	DIODE	[M]
D1341	MAZ4130NLF	DIODE	[M]
D1351	MAZ4056NHF	DIODE	[M]
D1383	MAZ4056NHF	DIODE	[M]
D1501	B3EA00000072	DIODE	[M]
D2001	MA2J72800L	DIODE	[M]
D2002	B0AAED000003	DIODE	[M]
D2501	B0EAKM000085	DIODE	[M]
D4501	B0AAED000003	DIODE	[M]
D5151	MA2J72800L	DIODE	[M]
D6215	MA2J72800L	DIODE	[M]
D6305	MAZ4062NLF	DIODE	[M]
D6306	MAZ4056NHF	DIODE	[M]
D7402	UDZSTE1715B	DIODE	[M]
D7403	UDZSTE1715B	DIODE	[M]
D7751	B0JACE000001	DIODE	[M]
D7752	MA2C700A0F	DIODE	[M]
D7753	B0AAED000003	DIODE	[M]
D7754	B0JACE000001	DIODE	[M]
D33001	MAZ4056NHF	DIODE	[M]
D34001	MAZ4075NHF	DIODE	[M]
D34011	B0AAED000003	DIODE	[M]
D34301	MAZ40470MF	DIODE	[M]
D36001	MAZ4075NHF	DIODE	[M]
D36002	MAZ4270N0F	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D36071	MAZ40390HF	DIODE	[M]
D36074	B0EAKM000085	DIODE	[M]
LR1150	J1ZZA0000004	DIODE	[M]
		CHIP INDUCTORS	
LB1120	VLP0056-T	INDUCTOR	[M]
LB1211	J0JHC0000012	COIL	[M]
LB3001	J0JHC0000045	CHIP INDUCTOR	[M]
LB3002	J0JHC0000045	CHIP INDUCTOR	[M]
LB3201	D0GB101JA002	100 1/16W	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]
LB3205	J0JCC0000119	CHIP INDUCTOR	[M]
LB3206	J0JCC0000119	CHIP INDUCTOR	[M]
LB3207	J0JCC0000119	CHIP INDUCTOR	[M]
LB3208	J0JCC0000119	CHIP INDUCTOR	[M]
LB3209	J0JBC0000015	INDUCTOR	[M]
LB4200	J0JBC0000015	CHIP INDUCTOR	[M]
LB4201	J0JCC0000119	CHIP INDUCTOR	[M]
LB4207	J0JCC0000119	CHIP INDUCTOR	[M]
LB4208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4209	J0JCC0000119	CHIP INDUCTOR	[M]
LB4210	J0JCC0000119	CHIP INDUCTOR	[M]
LB4211	J0JCC0000119	CHIP INDUCTOR	[M]
LB4212	J0JCC0000119	CHIP INDUCTOR	[M]
LB4214	J0JCC0000119	CHIP INDUCTOR	[M]
LB4215	J0JCC0000119	CHIP INDUCTOR	[M]
LB5101	J0JHC0000045	CHIP INDUCTOR	[M]
LB5105	J0JBC0000015	CHIP INDUCTOR	[M]
LB5106	J0JBC0000015	CHIP INDUCTOR	[M]
LB5201	J0JBC0000015	CHIP INDUCTOR	[M]
LB5202	J0JHC0000045	INDUCTOR	[M]
LB5203	J0JHC0000045	INDUCTOR	[M]
LB5204	J0JCC0000119	CHIP INDUCTOR	[M]
LB5205	J0JBC0000015	CHIP INDUCTOR	[M]
LB5206	J0JBC0000015	CHIP INDUCTOR	[M]
LB5207	J0JBC0000015	CHIP INDUCTOR	[M]
LB5208	J0JBC0000015	CHIP INDUCTOR	[M]
LB5209	J0JBC0000015	CHIP INDUCTOR	[M]
LB5210	J0JBC0000015	CHIP INDUCTOR	[M]
LB5211	J0JCC0000119	CHIP INDUCTOR	[M]
LB5212	J0JCC0000119	CHIP INDUCTOR	[M]
LB5213	J0JBC0000015	CHIP INDUCTOR	[M]
LB5214	J0JHC0000045	CHIP INDUCTOR	[M]
LB5215	J0JCC0000119	CHIP INDUCTOR	[M]
LB5217	J0JCC0000119	CHIP INDUCTOR	[M]
LB5218	J0JBC0000015	INDUCTOR	[M]
LB5219	J0JCC0000119	CHIP INDUCTOR	[M]
LB5220	J0JBC0000015	CHIP INDUCTOR	[M]
LB5221	J0JCC0000119	INDUCTOR	[M]
LB5222	ERJ3GEY0R00V	0 1/16W	[M]
LB5223	J0JCC0000119	INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5224	J0JCC0000119	INDUCTOR	[M]
LB5225	J0JBC0000015	INDUCTOR	[M]
LB5226	J0JCC0000119	INDUCTOR	[M]
LB5227	J0JBC0000015	INDUCTOR	[M]
LB5228	J0JCC0000119	CHIP INDUCTOR	[M]
LB5229	J0JCC0000119	CHIP INDUCTOR	[M]
LB5230	J0JBC0000015	CHIP INDUCTOR	[M]
LB5231	J0JHC0000045	CHIP INDUCTOR	[M]
LB5232	J0JBC0000015	CHIP INDUCTOR	[M]
LB5233	J0JCC0000119	CHIP INDUCTOR	[M]
LB5234	J0JBC0000015	CHIP INDUCTOR	[M]
LB5235	J0JCC0000119	CHIP INDUCTOR	[M]
LB5236	J0JCC0000119	INDUCTOR	[M]
LB5237	J0JCC0000119	INDUCTOR	[M]
LB5238	J0JCC0000119	INDUCTOR	[M]
LB5239	J0JBC0000015	INDUCTOR	[M]
LB5240	J0JBC0000015	INDUCTOR	[M]
LB6201	J0JBC0000015	INDUCTOR	[M]
LB6301	J0JHC0000045	CHIP INDUCTOR	[M]
LB6561	J0JBC0000015	CHIP INDUCTOR	[M]
LB6562	J0JCC0000119	CHIP INDUCTOR	[M]
LB6563	J0JCC0000119	INDUCTOR	[M]
LB6564	J0JCC0000119	CHIP INDUCTOR	[M]
LB6565	J0JCC0000077	INDUCTOR	[M]
LB6566	J0JCC0000119	CHIP INDUCTOR	[M]
LB6567	J0JBC0000015	CHIP INDUCTOR	[M]
LB7401	J0JBC0000015	CHIP INDUCTOR	[M]
LB7405	ERJ3GEY0R00V	0 1/16W	[M]
LB33001	J0JCC0000188	INDUCTOR	[M]
LB33005	ERJ3GEY0R00V	0 1/16W	[M]
LB33006	J0JHC0000021	INDUCTOR	[M]
LB33007	ERJ3GEY0R00V	0 1/16W	[M]
LB33008	ERJ3GEY0R00V	0 1/16W	[M]
LB33009	ERJ3GEY0R00V	0 1/16W	[M]
LB33010	J0JCC0000188	INDUCTOR	[M]
LB33011	J0JCC0000188	INDUCTOR	[M]
LB33012	J0JCC0000188	INDUCTOR	[M]
LB33013	J0JCC0000188	INDUCTOR	[M]
LB34002	ERJ3GEY0R00V	0 1/16W	[M]
LB34003	ERJ3GEY0R00V	0 1/16W	[M]
LB34004	ERJ3GEY0R00V	0 1/16W	[M]
LB34005	ERJ3GEY0R00V	0 1/16W	[M]
LB34006	ERJ3GEY0R00V	0 1/16W	[M]
LB34007	ERJ3GEY0R00V	0 1/16W	[M]
LB34008	ERJ3GEY0R00V	0 1/16W	[M]
LB34009	ERJ3GEY0R00V	0 1/16W	[M]
		VARIABLE RESISTORS	
VR901	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S901	EVQ11G09K	TACT SWITCH	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S902	EVQ11G09K	TACT SWITCH	[M]
S903	EVQ11G09K	TACT SWITCH	[M]
S904	EVQ11G09K	TACT SWITCH	[M]
S905	EVQ11G09K	TACT SWITCH	[M]
S906	EVQ11G09K	TACT SWITCH	[M]
S908	EVQ11G09K	TACT SWITCH	[M]
S911	EVQ11G09K	TACT SWITCH	[M]
S912	EVQ11G09K	TACT SWITCH	[M]
S913	EVQ11G09K	TACT SWITCH	[M]
S914	EVQ11G09K	TACT SWITCH	[M]
S915	EVQ11G09K	TACT SWITCH	[M]
S918	EVQ11G09K	TACT SWITCH	[M]
S919	EVQ11G09K	TACT SWITCH	[M]
S920	EVQ11G09K	TACT SWITCH	[M]
S1531	K0C111A00006	TACT SWITCH	[M]
S1532	K0ZZ00000598	MODE SWITCH	[M]
SW2501	RSH1A048-A	LEAF SWITCH	[M]
		CONNECTORS	
CN201	K1KB12B00036	12P CONNECTOR	[M]
CN202	K1KB12B00036	12P CONNECTOR	[M]
CN204	RJS2A7735	35P CONNECTOR	[M]
CN205	RJS1A9407	7P FFC CONNECTOR	[M]
CN206	RJS1A5215	CONNECTOR	[M]
CN207	RMR0319	10P CONNECTOR	[M]
CN209	RJU100W10	CONNECTOR	[M]
CN210	K1KA05A00082	5P CONNECTOR	[M]
CN301	RJS1A9411	11P FFC CONNECTOR	[M]
CN302	RJS1A9411	11P FFC CONNECTOR	[M]
CN303	RJS1A9407	7P FFC CONNECTOR	[M]
CN304	RJS2A7735	35P CONNECTOR	[M]
CN305	RJT119W04H	4P CONNECTOR	[M]
CN306	RJT119W04V	4P CONNECTOR	[M]
CN901	RJS1A6211-1	11P FFC CONNECTOR	[M]
CN902	K1KB06A00051	6P CONNECTOR	[M]
CN903	K1KB06A00051	6P CONNECTOR	[M]
CP201	K1KA12A00184	12P CONNECTOR	[M]
CP202	K1KA12A00184	12P CONNECTOR	[M]
CP207	RJS1A5210	10P WIRE HOLDER	[M]
CP209	RJT100W10	HOLDER	[M]
CP210	K1KA11A00093	11P CONNECTOR	[M]
CP902	K1KA06C00009	6P CONNECTOR	[M]
CP903	K1KA06C00009	5P CONNECTOR	[M]
PS3201	K1KB22A00025	22P CONNECTOR	[M]
PS4201	K1KB26A00027	26P CONNECTOR	[M]
P201	K1KB08A0078	CONNECTOR	[M]
P1102	K1KA19A00007	CONNECTOR	[M]
P1103	K1KA02A00010	2P CONNECTOR	[M]
P2501	RJS1A9407	7P FFC CONNECTOR	[M]
P2571	K1KA08A00290	CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
P4001	K1MZ02A00003	CONNECTOR	[M]
P4002	RJS1A9406	6P FFC CONNECTOR	[M]
P5001	RJS1A9410	10P FFC CONNECTOR	[M]
P6601	K1KB19A00008	CONNECTOR	[M]
P30003	K1KA22A00044	22P CONNECTOR	[M]
P30004	K1KA26A00089	26P CONNECTOR	[M]
P34301	RJS1A9411	11P FFC CONNECTOR	[M]
FP2501	K1MN04B00036	4P CONNECTOR	[M]
FP5101	K1MN30B00098	30P CONNECTOR	[M]
FP5102	K1MN50B00010	50P CONNECTOR	[M]
FP5201	K1MN50A00005	50P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L101	G0C3R3JA0027	COIL	[M]
L201	J0JBC0000041	CHIP INDUCTOR	[M]
L202	J0JBC0000041	CHIP INDUCTOR	[M]
L203	G0A200D00002	COIL	[M]
L204	J0JBC0000041	CHIP INDUCTOR	[M]
L205	G0A200D00002	COIL	[M]
L206	G0A200D00002	COIL	[M]
L251	J0JCC0000120	CHIP INDUCTOR	[M]
L252	J0JCC0000120	CHIP INDUCTOR	[M]
L253	J0JCC0000120	CHIP INDUCTOR	[M]
L254	J0JCC0000120	CHIP INDUCTOR	[M]
L255	J0JCC0000120	CHIP INDUCTOR	[M]
L256	J0JCC0000120	CHIP INDUCTOR	[M]
L257	J0JCC0000120	CHIP INDUCTOR	[M]
L258	J0JCC0000120	CHIP INDUCTOR	[M]
L259	J0JCC0000120	CHIP INDUCTOR	[M]
L261	J0JCC0000120	CHIP INDUCTOR	[M]
L262	J0JCC0000120	CHIP INDUCTOR	[M]
L801	G0A200D00002	COIL	[M] ⚠
L802	G0A200D00002	COIL	[M] ⚠
L804	G0C100JA0030	INDUCTOR	[M]
L901	J0JBC0000019	CHIP INDUCTOR	[M]
L902	J0JBC0000019	CHIP INDUCTOR	[M]
L903	J0JBC0000019	CHIP INDUCTOR	[M]
L904	J0JBC0000019	CHIP INDUCTOR	[M]
L905	J0JBC0000019	CHIP INDUCTOR	[M]
L1120	ELF15N005A	COIL	[M] ⚠
L1121	ELF15N005A	COIL	[M]
L1240	G0A220G00018	INDUCTOR	[M]
L1250	G0A220G00018	INDUCTOR	[M]
L1260	G0A150G00003	INDUCTOR	[M]
L1290	G0A220G00018	INDUCTOR	[M]
L2001	G1C100K00020	CHIP INDUCTOR	[M]
L2002	G1C100K00020	CHIP INDUCTOR	[M]
L2021	G1C100K00020	INDUCTOR	[M]
L3001	G1C100K00020	COIL	[M]
L3002	G0C221JA0019	COIL	[M]
L3003	G0C150JA0019	COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L3004	G0C390JA0019	COIL	[M]
L3006	G0C390JA0019	COIL	[M]
L3007	G0C560JA0019	COIL	[M]
L3008	G0C560JA0019	COIL	[M]
L3050	G0C181JA0019	COIL	[M]
L3091	G1C100K00020	INDUCTOR	[M]
L3212	G1C4R7J00008	INDUCTOR	[M]
L3213	G1C4R7J00008	INDUCTOR	[M]
L3216	G1C4R7J00008	INDUCTOR	[M]
L3217	G1C4R7J00008	INDUCTOR	[M]
L3221	G1C4R7J00008	INDUCTOR	[M]
L3222	G1C4R7J00008	INDUCTOR	[M]
L4081	ELESN471KA	CARBON RESISTOR	[M]
L4211	G1C220KA0038	CHIP CAPACITOR	[M]
L4501	G0C1R2J00004	COIL	[M]
L4502	G0C391JA0019	COIL	[M]
L5001	G0C560JA0019	COIL	[M]
L5101	ELJEA100KF	CHIP INDUCTOR	[M]
L5201	G1C100K00020	INDUCTOR	[M]
L5202	G1C100K00020	INDUCTOR	[M]
L5221	G1C100K00020	CHIP INDUCTOR	[M]
L6001	G0C5R6JA0019	COIL	[M]
L6004	G0C1R5JA0019	INDUCTOR	[M]
L6561	G1C220KA0038	CHIP CAPACITOR	[M]
L6562	G1C220KA0038	CHIP CAPACITOR	[M]
L7401	G0C120JA0030	COIL	[M]
L33501	G0C220JA0019	AXIAL INDUCTOR	[M]
L33504	G0CR68JA0019	AXIAL INDUCTOR	[M]
L33506	G0CR39JA0019	AXIAL INDUCTOR	[M]
L34001	G0C101JA0019	INDUCTOR	[M]
T1150	G4D2A0000110	SWITCHING TRANSFORME	[M] ⚠
T4081	EQQ7QF024Q	IF TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
DP37501	A2BD00000060	FL UNIT	[M]
Z900	B3RAB0000025	REMOTE SENSOR	[M]
TU7401	ENG36502G	TV TUNER	[M]
		OSCILLATORS	
X101	H2B100500004	CERAMIC RESONATORS	[M]
X201	RSXZ36M8M01T	RESONATOR	[M]
X3002	H0D357400036	CRYSTAL OSCILLATOR	[M]
X6001	H0D120500009	CRYSTAL OSCILLATOR	[M]
X6002	H0A327200026	CRYSTAL OSCILLATOR	[M]
X6501	H0J368600003	CRYSTAL OSCILLATOR	[M]
X36001	H2D800400009	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	

Ref. No.	Part No.	Part Name & Description	Remarks
FL4201	F1H0J1050018	1 6.3V	[M]
FL4561	EFCT4R5MS5W	SIF FILTER	[M]
FL6251	F1H0J1050018	1 6.3V	[M]
FL6252	F1H0J1050018	1 6.3V	[M]
FL6253	F1H0J1050018	1 6.3V	[M]
FL6254	F1H0J1050018	1 6.3V	[M]
FL6255	F1J1E1040022	0.1 25V	[M]
		FUSES	
F1101	K5D162AD0003	FUSE	[M] ⚠
B7751	VSB0205	BATTERY	[M]
ZA1103	EYF52BC	FUSE HOLDER	[M]
ZA1104	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP800	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP801	K5G102AA0002	FUSE PROTECTOR	[M] ⚠
IP1240	K5G252AA0003	IC PROTECTOR	[M] ⚠
		HOLDERS	
H206	RMR0324	15P WIRE HOLDER	[M]
		JACKS	
JK101	K1CB105B0037	JK S-VIDEO	[M]
JK102	K2HA103B0022	JK 3 PIN	[M]
JK103	K2HA612B0039	JK 6 PIN	[M]
JK104	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK901	K2HC103A0023	JK SMALL SIGN	[M]
P1101	K2AB2B000002	AC INLET	[M] ⚠
		EARTH TERMINAL	
E201	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
P1531	K1KA02A00375	LOADING MOTOR WIRE	[M]
		RESISTORS	
R3	ERJ3GEY0R00V	0 1/16W	[M]
R101	ERJ3GEYJ223V	22K 1/16W	[M]
R102	ERJ3GEYJ223V	22K 1/16W	[M]
R103	ERJ3GEYJ104V	100K 1/16W	[M]
R104	ERJ3GEYJ472V	4.7K 1/16W	[M]
R105	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R106	ERJ3GEYJ103V	10K 1/16W	[M]
R107	ERJ3GEYJ102V	1K 1/16W	[M]
R108	ERJ3GEYJ223V	22K 1/16W	[M]
R109	ERJ3GEYJ681V	680 1/16W	[M]
R111	ERJ3GEYJ103V	10K 1/16W	[M]
R112	ERJ3GEYJ103V	10K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	D0GB821JA002	820 1/16W	[M]
R115	ERJ3GEYJ223V	22K 1/16W	[M]
R116	ERJ3GEYJ221V	220 1/16W	[M]
R117	ERJ3GEYJ221V	220 1/16W	[M]
R118	ERJ3GEYJ221V	220 1/16W	[M]
R119	ERJ3GEYJ221V	220 1/16W	[M]
R120	ERJ3GEYJ471V	470 1/16W	[M]
R121	ERJ3GEYJ221V	220 1/16W	[M]
R122	ERJ3GEYJ221V	220 1/16W	[M]
R123	ERJ3GEYJ221V	220 1/16W	[M]
R124	ERJ3GEYJ221V	220 1/16W	[M]
R125	ERJ3GEYJ331V	330 1/16W	[M]
R126	ERJ3GEYJ331V	330 1/16W	[M]
R127	ERJ3GEYJ331V	330 1/16W	[M]
R128	ERJ3GEYJ103V	10K 1/16W	[M]
R129	ERJ3GEYJ331V	330 1/16W	[M]
R130	ERJ3GEYJ331V	330 1/16W	[M]
R131	ERJ3GEYJ331V	330 1/16W	[M]
R132	ERJ3GEYJ331V	330 1/16W	[M]
R133	ERJ3GEYJ331V	330 1/16W	[M]
R134	ERJ3GEYJ331V	330 1/16W	[M]
R135	ERJ3GEYJ331V	330 1/16W	[M]
R136	ERJ3GEYJ331V	330 1/16W	[M]
R137	ERJ3GEYJ103V	10K 1/16W	[M]
R138	ERJ3GEYJ331V	330 1/16W	[M]
R140	ERJ3GEYJ102V	1K 1/16W	[M]
R141	ERJ3GEYJ103V	10K 1/16W	[M]
R142	ERJ3GEYJ221V	220 1/16W	[M]
R143	ERJ3GEYJ103V	10K 1/16W	[M]
R144	ERJ3GEYJ221V	220 1/16W	[M]
R145	ERJ3GEYJ103V	10K 1/16W	[M]
R146	ERJ3GEYJ221V	220 1/16W	[M]
R147	ERJ3GEYJ221V	220 1/16W	[M]
R148	ERJ3GEYJ221V	220 1/16W	[M]
R149	ERJ3GEYJ221V	220 1/16W	[M]
R150	ERJ3GEYJ221V	220 1/16W	[M]
R151	ERJ3GEYJ221V	220 1/16W	[M]
R152	ERJ3GEYJ221V	220 1/16W	[M]
R153	ERJ3GEYJ221V	220 1/16W	[M]
R154	ERJ3GEYJ331V	330 1/16W	[M]
R155	ERJ3GEYJ331V	330 1/16W	[M]
R160	D0GB106JA008	10M 1/16W	[M]
R161	D0GB334JA002	330K 1/16W	[M]
R162	ERJ3GEYJ223V	22K 1/16W	[M]
R163	D0GB333JA002	33K 1/16W	[M]
R164	D0GB333JA002	33K 1/16W	[M]
R165	D0GB333JA002	33K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R166	ERJ3GEYJ331V	330 1/16W	[M]
R167	ERJ3GEYJ223V	22K 1/16W	[M]
R168	ERJ3GEYJ103V	10K 1/16W	[M]
R170	ERJ3GEYJ103V	10K 1/16W	[M]
R171	ERJ3GEYJ103V	10K 1/16W	[M]
R172	ERJ3GEYJ103V	10K 1/16W	[M]
R173	ERJ3GEYJ103V	10K 1/16W	[M]
R174	ERJ3GEYJ103V	10K 1/16W	[M]
R175	ERJ3GEYJ103V	10K 1/16W	[M]
R176	ERJ3GEYJ103V	10K 1/16W	[M]
R177	ERJ3GEYJ223V	22K 1/16W	[M]
R201	ERJ3GEYJ102V	1K 1/16W	[M]
R202	ERJ3GEYJ102V	1K 1/16W	[M]
R202	ERJ6GEYF912V	9.1K 1/10W	[M]
R203	D0GZR91JA001	0.9K 1/4W	[M]
R203	ERJ3GEYJ223V	22K 1/16W	[M]
R204	D0GB333JA002	33K 1/16W	[M]
R204	D0GB750JA019	75 1/16W	[M]
R205	D0GZR91JA001	0.9K 1/4W	[M]
R205	D0GB562JA002	5.6K 1/16W	[M]
R207	B4ABB0000013	0.9K 1/4W	[M]
R208	B4ABB0000013	0.9K 1/4W	[M]
R209	EZMPX300F13	0.9K 1/4W	[M]
R209	ERJ3GEYJ822V	8.2K 1/16W	[M]
R210	B4ABB0000013	0.9K 1/4W	[M]
R221	ERJ3GEYJ822V	8.2K 1/16W	[M]
R222	D0GB562JA002	5.6K 1/16W	[M]
R224	ERJ3GEYJ102V	1K 1/16W	[M]
R225	ERJ3GEYJ102V	1K 1/16W	[M]
R227	ERJ3GEYJ102V	1K 1/16W	[M]
R228	ERJ3GEYJ102V	1K 1/16W	[M]
R229	ERJ3GEYJ470V	47 1/16W	[M]
R230	D0GB105JA002	1M 1/16W	[M]
R231	ERJ3GEYJ221V	220 1/16W	[M]
R232	D0GB271JA002	270 1/16W	[M]
R233	D0GB122JA019	1.2K 1/16W	[M]
R234	D0GB271JA002	270 1/16W	[M]
R235	D0GB122JA019	1.2K 1/16W	[M]
R236	ERJ3GEY0R00V	0 1/16W	[M]
R237	ERJ3GEYJ153V	15K 1/16W	[M]
R238	D0GB271JA002	270 1/16W	[M]
R240	D0GB271JA002	270 1/16W	[M]
R240	ERJ3GEYJ471V	470 1/16W	[M]
R241	ERJ3GEYJ471V	470 1/16W	[M]
R242	ERJ3GEYJ104V	100K 1/16W	[M]
R242	ERJ3GEYJ123V	12K 1/16W	[M]
R243	ERJ3GEYJ123V	12K 1/16W	[M]
R243	ERJ3GEYJ472V	4.7K 1/16W	[M]
R244	ERJ3GEYJ331V	330 1/16W	[M]
R244	ERJ3GEYJ472V	4.7K 1/16W	[M]
R245	ERJ3GEYJ102V	1K 1/16W	[M]
R245	ERJ3GEYJ331V	330 1/16W	[M]
R246	ERJ3GEYJ331V	330 1/16W	[M]
R247	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R248	D0GB562JA002	5.6K 1/16W	[M]
R249	D0GB562JA002	5.6K 1/16W	[M]
R249	ERJ3GEYJ471V	470 1/16W	[M]
R250	D0GB392JA002	3.9K 1/16W	[M]
R250	ERJ3GEYJ104V	100K 1/16W	[M]
R251	D0GB392JA002	3.9K 1/16W	[M]
R251	ERJ3GEYJ471V	470 1/16W	[M]
R252	ERJ3GEYJ104V	100K 1/16W	[M]
R258	D0GB750JA019	75 1/16W	[M]
R259	D0GB750JA019	75 1/16W	[M]
R260	D0GB750JA019	75 1/16W	[M]
R261	D0GB122JA019	1.2K 1/16W	[M]
R261	D0GB821JA002	820 1/16W	[M]
R262	D0GB122JA019	1.2K 1/16W	[M]
R262	ERJ3GEYJ472V	4.7K 1/16W	[M]
R263	ERJ3GEY0R00V	0 1/16W	[M]
R263	ERJ3GEYJ182V	1.8K 1/16W	[M]
R264	D0GB821JA002	820 1/16W	[M]
R265	ERJ3GEYJ103V	10K 1/16W	[M]
R266	ERJ3GEYJ473V	47K 1/16W	[M]
R267	ERJ3GEYJ223V	22K 1/16W	[M]
R301	ERJ3GEYJ222V	2.2K 1/16W	[M]
R302	ERJ3GEYJ123V	12K 1/16W	[M]
R303	ERJ3GEYJ222V	2.2K 1/16W	[M]
R306	ERJ3GEYJ123V	12K 1/16W	[M]
R309	ERJ3GEYJ153V	15K 1/16W	[M]
R310	ERJ3GEYJ222V	2.2K 1/16W	[M]
R313	ERJ3GEYJ123V	12K 1/16W	[M]
R316	ERJ3GEYJ682V	6.8K 1/16W	[M]
R317	ERJ3GEYJ223V	22K 1/16W	[M]
R318	ERJ3GEYJ104V	100K 1/16W	[M]
R320	ERJ3GEYJ103V	10K 1/16W	[M]
R321	ERJ3GEYJ104V	100K 1/16W	[M]
R322	ERJ3GEYJ103V	10K 1/16W	[M]
R324	ERJ3GEYJ223V	22K 1/16W	[M]
R325	D0GB154JA002	150K 1/16W	[M]
R326	D0GB154JA002	150K 1/16W	[M]
R327	D0GB332JA002	3.3K 1/16W	[M]
R328	ERJ3GEYJ102V	1K 1/16W	[M]
R329	ERJ3GEYJ102V	1K 1/16W	[M]
R330	ERJ3GEYJ473V	47K 1/16W	[M]
R331	ERJ3GEYJ473V	47K 1/16W	[M]
R332	D0GB332JA002	3.3K 1/16W	[M]
R333	D0GB332JA002	3.3K 1/16W	[M]
R334	ERJ3GEYJ102V	1K 1/16W	[M]
R335	ERJ3GEYJ102V	1K 1/16W	[M]
R336	ERJ3GEYJ473V	47K 1/16W	[M]
R337	ERJ3GEYJ473V	47K 1/16W	[M]
R338	D0GB332JA002	3.3K 1/16W	[M]
R339	D0GB332JA002	3.3K 1/16W	[M]
R340	ERJ3GEYJ102V	1K 1/16W	[M]
R341	ERJ3GEYJ473V	47K 1/16W	[M]
R342	ERJ3GEYJ102V	1K 1/16W	[M]
R343	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R344	D0GB332JA002	3.3K 1/16W	[M]
R345	ERJ3GEYJ102V	1K 1/16W	[M]
R346	ERJ3GEYJ102V	1K 1/16W	[M]
R347	ERJ3GEYJ223V	22K 1/16W	[M]
R348	ERJ3GEYJ223V	22K 1/16W	[M]
R350	ERJ3GEYJ102V	1K 1/16W	[M]
R353	D0GB272JA002	2.7K 1/16W	[M]
R360	ERJ3GEYJ104V	100K 1/16W	[M]
R361	ERJ3GEYJ104V	100K 1/16W	[M]
R362	D0GB272JA002	2.7K 1/16W	[M]
R363	ERJ3GEYJ123V	12K 1/16W	[M]
R364	D0GB392JA002	3.9K 1/16W	[M]
R365	D0GB272JA002	2.7K 1/16W	[M]
R366	ERJ3GEYJ123V	12K 1/16W	[M]
R367	D0GB392JA002	3.9K 1/16W	[M]
R369	ERJ3GEYJ822V	8.2K 1/16W	[M]
R370	ERJ3GEYJ822V	8.2K 1/16W	[M]
R371	D0GB392JA002	3.9K 1/16W	[M]
R373	D0GB1R8JA008	1.8 1/16W	[M]
R374	ERJ3GEYJ222V	2.2K 1/16W	[M]
R375	ERJ3GEYJ471V	470 1/16W	[M]
R376	ERJ3GEYJ104V	100K 1/16W	[M]
R377	ERJ3GEYJ222V	2.2K 1/16W	[M]
R378	D0GB183JA002	18K 1/16W	[M]
R379	ERJ3GEYJ391V	390 1/16W	[M]
R380	ERJ3GEYJ222V	2.2K 1/16W	[M]
R381	ERJ3GEYJ222V	2.2K 1/16W	[M]
R382	ERJ3GEYJ472V	4.7K 1/16W	[M]
R383	ERJ3GEYJ473V	47K 1/16W	[M]
R384	D0GB562JA002	5.6K 1/16W	[M]
R385	ERJ3GEYJ682V	6.8K 1/16W	[M]
R386	ERJ3GEYJ104V	100K 1/16W	[M]
R387	D0GB562JA002	5.6K 1/16W	[M]
R388	ERJ3GEYJ682V	6.8K 1/16W	[M]
R389	ERJ3GEYJ473V	47K 1/16W	[M]
R390	ERJ3GEYJ473V	47K 1/16W	[M]
R391	ERJ3GEYJ223V	22K 1/16W	[M]
R392	ERJ3GEYJ223V	22K 1/16W	[M]
R393	ERD25FVJ270T	27 1/4W	[M]
R394	ERD25FVJ270T	27 1/4W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	ERJ3GEYJ123V	12K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ103V	10K 1/16W	[M]
R405	ERJ3GEYJ104V	100K 1/16W	[M]
R406	ERJ3GEYJ682V	6.8K 1/16W	[M]
R407	ERJ3GEYJ104V	100K 1/16W	[M]
R408	ERJ3GEYJ102V	1K 1/16W	[M]
R409	ERJ3GEYJ103V	10K 1/16W	[M]
R410	D0GB154JA002	150K 1/16W	[M]
R411	ERJ3GEYJ561V	560 1/16W	[M]
R412	ERJ3GEYJ561V	560 1/16W	[M]
R413	D0GB124JA002	120K 1/16W	[M]
R416	D0GB393JA002	39K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R417	ERJ3GEYJ823V	82K 1/16W	[M]
R418	ERJ3GEYJ222V	2.2K 1/16W	[M]
R419	ERJ3GEYJ102V	1K 1/16W	[M]
R420	ERJ3GEYJ102V	1K 1/16W	[M]
R421	ERJ3GEYJ222V	2.2K 1/16W	[M]
R422	D0GB101JA002	100 1/16W	[M]
R423	D0GB154JA002	150K 1/16W	[M]
R424	D0GB101JA002	100 1/16W	[M]
R425	D0GB563JA002	56K 1/16W	[M]
R426	ERJ3GEYJ182V	1.8K 1/16W	[M]
R427	D0GB332JA002	3.3K 1/16W	[M]
R428	D0GB100JA002	10 1/16W	[M]
R429	D0GB100JA002	10 1/16W	[M]
R430	D0GB100JA002	10 1/16W	[M]
R431	D0GB100JA002	10 1/16W	[M]
R432	D0GB393JA002	39K 1/16W	[M]
R433	ERJ3GEYJ823V	82K 1/16W	[M]
R434	ERJ3GEYJ102V	1K 1/16W	[M]
R435	ERJ3GEYJ391V	390 1/16W	[M]
R436	ERJ3GEYJ104V	100K 1/16W	[M]
R437	ERJ3GEYJ391V	390 1/16W	[M]
R438	ERJ3GEYJ104V	100K 1/16W	[M]
R439	ERJ3GEYJ104V	100K 1/16W	[M]
R440	ERJ3GEYJ104V	100K 1/16W	[M]
R441	ERJ3GEYJ561V	560 1/16W	[M]
R442	ERJ3GEYJ182V	1.8K 1/16W	[M]
R701	ERJ3GEYJ102V	1K 1/16W	[M]
R702	ERJ3GEYJ102V	1K 1/16W	[M]
R705	D0GB122JA019	1.2K 1/16W	[M]
R706	ERJ3GEYJ104V	100K 1/16W	[M]
R707	ERJ3GEYJ104V	100K 1/16W	[M]
R708	ERJ3GEYJ102V	1K 1/16W	[M]
R709	ERJ3GEYJ102V	1K 1/16W	[M]
R710	D0GB122JA019	1.2K 1/16W	[M]
R711	D0GB332JA002	3.3K 1/16W	[M]
R712	ERJ3GEYJ473V	47K 1/16W	[M]
R713	D0GB332JA002	3.3K 1/16W	[M]
R714	ERJ3GEYJ473V	47K 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R716	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ682V	6.8K 1/16W	[M]
R718	D0GB272JA002	2.7K 1/16W	[M]
R719	ERJ3GEYJ102V	1K 1/16W	[M]
R720	D0GB124JA002	120K 1/16W	[M]
R721	D0GB563JA002	56K 1/16W	[M]
R722	D0GB393JA002	39K 1/16W	[M]
R723	ERJ3GEYJ823V	82K 1/16W	[M]
R724	D0GB152JA002	1.5K 1/16W	[M]
R725	D0GB392JA002	3.9K 1/16W	[M]
R726	D0GB392JA002	3.9K 1/16W	[M]
R728	ERJ3GEYJ103V	10K 1/16W	[M]
R729	ERJ3GEYJ102V	1K 1/16W	[M]
R730	ERJ3GEYJ104V	100K 1/16W	[M]
R731	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R732	ERJ3GEYJ473V	47K 1/16W	[M]
R733	D0GB273JA002	27K 1/16W	[M]
R734	ERJ3GEYJ824V	820K 1/16W	[M]
R735	ERJ3GEYJ222V	2.2K 1/16W	[M]
R736	ERJ3GEYJ102V	1K 1/16W	[M]
R738	ERJ3GEYJ222V	2.2K 1/16W	[M]
R740	ERJ3GEYJ103V	10K 1/16W	[M]
R741	ERJ3GEYJ103V	10K 1/16W	[M]
R742	ERJ3GEYJ223V	22K 1/16W	[M]
R747	D0GB152JA002	1.5K 1/16W	[M]
R748	D0GB152JA002	1.5K 1/16W	[M]
R749	ERJ3GEYJ153V	15K 1/16W	[M]
R750	ERJ3GEYJ104V	100K 1/16W	[M]
R752	ERJ3GEYJ822V	8.2K 1/16W	[M]
R753	D0GB333JA002	33K 1/16W	[M]
R755	ERJ3GEYJ123V	12K 1/16W	[M]
R756	ERDS1FVJ120T	12 1/2W	[M]
R758	D0GB274JA002	270K 1/16W	[M]
R759	ERJ3GEYJ153V	15K 1/16W	[M]
R760	ERJ3GEYJ822V	8.2K 1/16W	[M]
R761	ERJ3GEYJ823V	82K 1/16W	[M]
R762	ERJ3GEYJ823V	82K 1/16W	[M]
R765	D0GB683JA002	68K 1/16W	[M]
R777	D0GB333JA002	33K 1/16W	[M]
R778	ERJ3GEYJ822V	8.2K 1/16W	[M]
R782	D0GB273JA002	27K 1/16W	[M]
R783	D0GB273JA002	27K 1/16W	[M]
R784	ERDS1FVJ120T	12 1/2W	[M]
R785	D0GB124JA002	120K 1/16W	[M]
R786	ERJ3GEYJ102V	1K 1/16W	[M]
R787	D0GB154JA002	150K 1/16W	[M]
R788	D0GB273JA002	27K 1/16W	[M]
R789	D0GB272JA002	2.7K 1/16W	[M]
R790	ERJ3GEYJ561V	560 1/16W	[M]
R791	ERJ3GEYJ473V	47K 1/16W	[M]
R792	ERJ3GEYJ473V	47K 1/16W	[M]
R793	ERJ3GEYJ561V	560 1/16W	[M]
R794	ERDS1FVJ820T	82 1/2W	[M]
R795	ERDS1FVJ820T	82 1/2W	[M]
R796	ERDS1FVJ820T	82 1/2W	[M]
R797	ERDS1FVJ820T	82 1/2W	[M]
R798	ERJ3GEYJ102V	1K 1/16W	[M]
R799	D0GB154JA002	150K 1/16W	[M]
R800	D0GB683JA002	68K 1/16W	[M]
R802	ERDS1FVJ4R7T	4.7 1/2W	[M]
R803	ERDS1FVJ4R7T	4.7 1/2W	[M]
R804	ERJ3GEYJ681V	680 1/16W	[M]
R805	ERJ3GEYJ471V	470 1/16W	[M]
R814	D0GB272JA002	2.7K 1/16W	[M]
R815	ERJ3GEYJ561V	560 1/16W	[M]
R816	ERDS1FVJ4R7T	4.7 1/2W	[M]
R817	ERD25FVJ4R7T	4.7 1/4W	[M]
R818	ERJ3GEYJ561V	560 1/16W	[M]
R819	D0GB272JA002	2.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R860	D0GB122JA019	1.2K 1/16W	[M]
R861	D0GB124JA002	120K 1/16W	[M]
R862	ERJ3GEYJ472V	4.7K 1/16W	[M]
R863	D0GB1R0JA002	1 1/16W	[M]
R864	D0GB1R0JA002	1 1/16W	[M]
R865	D0GB122JA019	1.2K 1/16W	[M]
R866	ERJ3GEYJ823V	82K 1/16W	[M]
R867	ERJ3GEYJ472V	4.7K 1/16W	[M]
R868	ERJ3GEYJ472V	4.7K 1/16W	[M]
R903	D0GB122JA019	1.2K 1/16W	[M]
R904	D0GB152JA002	1.5K 1/16W	[M]
R905	D0GB562JA002	5.6K 1/16W	[M]
R906	D0GB122JA019	1.2K 1/16W	[M]
R907	D0GB152JA002	1.5K 1/16W	[M]
R908	D0GB562JA002	5.6K 1/16W	[M]
R911	ERJ3GEYJ123V	12K 1/16W	[M]
R912	ERJ3GEYJ102V	1K 1/16W	[M]
R915	D0GB122JA019	1.2K 1/16W	[M]
R916	D0GB152JA002	1.5K 1/16W	[M]
R917	D0GB562JA002	5.6K 1/16W	[M]
R918	ERJ3GEYJ472V	4.7K 1/16W	[M]
R919	ERJ3GEYJ682V	6.8K 1/16W	[M]
R920	ERJ3GEYJ470V	47 1/16W	[M]
R922	D0GB122JA019	1.2K 1/16W	[M]
R1150	ERDS2TJ105T	1M 1/4W	[M]
R1153	ERG1SJ331E	330 1W	[M]
R1154	ERDS2TJ105T	1M 1/4W	[M]
R1155	ERDS2TJ104T	100K 1/4W	[M]
R1156	ERDS2TJ330T	33 1/4W	[M]
R1157	ER0S2THF4701	47 1/4W	[M]
R1158	ERDS2TJ331T	330 1/4W	[M]
R1159	ERDS2TJ3R3T	3.3 1/4W	[M]
R1160	ERX1SJR22E	0.22 1W	[M]
R1161	ERDS2TJ101T	100 1/4W	[M]
R1162	ERDS2FJ102T	1K 1/4W	[M]
R1163	ERDS2FJ101T	100 1/4W	[M]
R1202	ERJ6GEYG242V	2.4K 1/10W	[M]
R1203	ERJ6GEYG103V	10K 1/10W	[M]
R1204	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1206	ERJ6GEYJ271V	270 1/10W	[M]
R1208	ERJ6GEYG272V	2.7K 1/10W	[M]
R1230	ERJ6GEYJ473V	47K 1/10W	[M]
R1231	ERJ3GEYJ104V	100K 1/16W	[M]
R1240	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1290	ERJ3GEYJ103V	10K 1/16W	[M]
R1341	ERDS2TJ103T	10K 1/4W	[M]
R1351	ERDS2TJ821T	820 1/4W	[M]
R1381	ERDS2TJ471T	470 1/4W	[M]
R1501	D0GB273JA002	27K 1/16W	[M]
R1502	D0GB273JA002	27K 1/16W	[M]
R1503	ERDS2TJ151T	150 1/4W	[M]
R1511	D0GB273JA002	27K 1/16W	[M]
R1512	D0GB273JA002	27K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1513	ERJ6GEYJ121V	120 1/10W	[M]
R2001	D0GB392JA002	3.9K 1/16W	[M]
R2002	D0GB105JA002	1M 1/16W	[M]
R2021	ERJ3GEYJ473V	47K 1/16W	[M]
R2022	D0GB752JA002	7.5K 1/16W	[M]
R2023	D0GB752JA008	7.5K 1/16W	[M]
R2023	ERJ3GEYJ153V	15K 1/16W	[M]
R2025	ERJ3GEYJ223V	22K 1/16W	[M]
R2026	ERJ3GEYJ223V	22K 1/16W	[M]
R2027	D0GB563JA002	56K 1/16W	[M]
R2028	D0GB563JA002	56K 1/16W	[M]
R2029	ERJ3GEYJ103V	10K 1/16W	[M]
R2030	ERJ3GEYJ102V	1K 1/16W	[M]
R2031	ERJ3GEYJ561V	560 1/16W	[M]
R2032	ERJ3GEYJ103V	10K 1/16W	[M]
R2033	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2034	ERJ3GEYJ473V	47K 1/16W	[M]
R2035	D0GB272JA002	2.7K 1/16W	[M]
R2036	ERJ3GEY0R00V	0 1/16W	[M]
R2037	D0GB683JA002	68K 1/16W	[M]
R2038	ERJ3GEYJ153V	15K 1/16W	[M]
R2039	D0GB105JA002	1M 1/16W	[M]
R2040	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2041	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2042	ERJ3GEYJ153V	15K 1/16W	[M]
R2043	ERJ3GEYJ153V	15K 1/16W	[M]
R2044	ERJ3GEYJ153V	15K 1/16W	[M]
R2045	ERJ3GEYJ153V	15K 1/16W	[M]
R2046	ERJ3GEYJ153V	15K 1/16W	[M]
R2047	ERJ3GEYJ153V	15K 1/16W	[M]
R2048	D0GB475JA008	4.7M 1/16W	[M]
R2049	ERJ3GEYJ102V	1K 1/16W	[M]
R2051	D0GB101JA002	100 1/16W	[M]
R2052	D0GB101JA002	100 1/16W	[M]
R2053	ERJ3GEYJ473V	47K 1/16W	[M]
R2054	ERJ3GEYJ473V	47K 1/16W	[M]
R2099	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2501	D0GB101JA002	100 1/16W	[M]
R2501	ERJ6GEYJ1R2V	1.2 1/10W	[M]
R2502	ERJ3GEYJ153V	15K 1/16W	[M]
R2502	ERJ6GEYJ1R5V	1.5 1/10W	[M]
R2503	ERJ3GEYJ153V	15K 1/16W	[M]
R2504	ERJ3GEYJ823V	82K 1/16W	[M]
R2505	ERJ3GEYJ823V	82K 1/16W	[M]
R2507	D0GF6R8JA017	6.8 1/16W	[M]
R2514	ERJ3GEYJ221V	220 1/16W	[M]
R2515	ERJ3GEYJ221V	220 1/16W	[M]
R2516	ERJ3GEYJ221V	220 1/16W	[M]
R2520	D0GB183JA002	18K 1/16W	[M]
R2521	ERJ3GEYJ102V	1K 1/16W	[M]
R2551	ERJ3GEYJ103V	10K 1/16W	[M]
R2552	ERJ3GEYJ103V	10K 1/16W	[M]
R2561	ERJ3GEYJ102V	1K 1/16W	[M]
R2562	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2563	ERJ3GEYJ102V	1K 1/16W	[M]
R2564	D0GB101JA002	100 1/16W	[M]
R2565	D0GB101JA002	100 1/16W	[M]
R3001	D0GB220JA002	22 1/16W	[M]
R3001	J0JCC0000119	INDUCTOR	[M]
R3002	ERJ3GEYJ103V	10K 1/16W	[M]
R3002	ERJ3GEYJ153V	15K 1/16W	[M]
R3003	ERJ3GEYJ103V	10K 1/16W	[M]
R3003	ERJ3GEYJ471V	470 1/16W	[M]
R3004	D0GB152JA002	1.5K 1/16W	[M]
R3005	ERJ3RBD122V	1.2K 3W	[M]
R3006	D0GB122JA019	1.2K 1/16W	[M]
R3007	ERJ3GEYJ222V	2.2K 1/16W	[M]
R3008	D0GB332JA002	3.3K 1/16W	[M]
R3009	D0GB101JA002	100 1/16W	[M]
R3010	D0GB272JA002	2.7K 1/16W	[M]
R3011	ERJ3GEY0R00V	0 1/16W	[M]
R3012	ERJ3GEYJ473V	47K 1/16W	[M]
R3013	D0GB392JA002	3.9K 1/16W	[M]
R3013	ERJ3GEYJ330V	33 1/16W	[M]
R3014	ERJ3GEYJ103V	10K 1/16W	[M]
R3015	ERJ3GEYJ561V	560 1/16W	[M]
R3016	ERJ3GEYJ103V	10K 1/16W	[M]
R3017	ERJ3GEYJ103V	10K 1/16W	[M]
R3018	D0GB272JA002	2.7K 1/16W	[M]
R3019	D0GB475JA008	4.7M 1/16W	[M]
R3051	D0GB101JA002	100 1/16W	[M]
R3052	D0GB560JA002	56 1/16W	[M]
R3053	ERJ3GEYJ561V	560 1/16W	[M]
R3101	ERJ3RBD153V	15K 3W	[M]
R3102	ERJ3RBD272V	2.7K 3W	[M]
R3106	ERJ3RED620V	62 3W	[M]
R3107	ERJ3RED150V	15 3W	[M]
R3111	ERJ3RED620V	62 3W	[M]
R3112	ERJ3RED150V	15 3W	[M]
R3113	ERJ3GEYJ330V	33 1/16W	[M]
R3114	ERJ3GEYJ102V	1K 1/16W	[M]
R3116	ERJ3RED620V	62 3W	[M]
R3117	ERJ3RED130V	13 3W	[M]
R3118	ERJ3GEYJ102V	1K 1/16W	[M]
R3121	ERJ3RBD101V	100 3W	[M]
R3122	ERJ3RED160V	16 3W	[M]
R3123	ERJ3GEYJ102V	1K 1/16W	[M]
R3201	ERDS2TJ681T	680 1/4W	[M]
R3202	D0GB271JA002	270 1/16W	[M]
R3211	D0GB750JA019	75 1/16W	[M]
R3212	D0GB750JA019	75 1/16W	[M]
R3235	ERJ3GEYJ561V	560 1/16W	[M]
R3236	ERJ3GEYJ103V	10K 1/16W	[M]
R3237	D0GB101JA002	100 1/16W	[M]
R3238	ERJ3GEYJ102V	1K 1/16W	[M]
R3239	ERJ3GEYJ561V	560 1/16W	[M]
R3240	ERJ3GEYJ103V	10K 1/16W	[M]
R3241	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3242	ERJ3GEYJ102V	1K 1/16W	[M]
R3243	ERJ3GEYJ561V	560 1/16W	[M]
R3244	ERJ3GEYJ103V	10K 1/16W	[M]
R3245	D0GB101JA002	100 1/16W	[M]
R3246	ERJ3GEYJ102V	1K 1/16W	[M]
R3401	ERJ3GEYJ103V	10K 1/16W	[M]
R3402	ERJ3GEYJ222V	2.2K 1/16W	[M]
R3409	ERJ3GEYJ471V	470 1/16W	[M]
R3410	ERJ3GEYJ471V	470 1/16W	[M]
R3502	ERJ3GEYJ102V	1K 1/16W	[M]
R3514	ERJ3GEYJ222V	2.2K 1/16W	[M]
R3515	ERJ3GEYJ222V	2.2K 1/16W	[M]
R3612	ERDS2TJ100T	10 1/4W	[M]
R3702	D0GB750JA019	75 1/16W	[M]
R3703	D0GB750JA019	75 1/16W	[M]
R3816	ERJ3GEYJ182V	1.8K 1/16W	[M]
R3854	ERJ3GEYJ473V	47K 1/16W	[M]
R3904	ERJ3GEYJ622V	6.2K 1/16W	[M]
R4012	ERJ3GEYJ561V	560 1/16W	[M]
R4013	ERJ3GEYJ153V	15K 1/16W	[M]
R4014	ERJ3GEYJ223V	22K 1/16W	[M]
R4015	ERJ3GEYJ203V	20K 1/16W	[M]
R4061	D0GB334JA002	330K 1/16W	[M]
R4062	ERJ3GEYJ103V	10K 1/16W	[M]
R4063	D0GB271JA002	270 1/16W	[M]
R4071	ERJ3GEYJ153V	15K 1/16W	[M]
R4081	ERJ3GEYJ103V	10K 1/16W	[M]
R4082	D0GB332JA002	3.3K 1/16W	[M]
R4084	ERJ3GEYJ102V	1K 1/16W	[M]
R4085	ERJ3GEYJ102V	1K 1/16W	[M]
R4086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R4087	ERJ3GEYJ222V	2.2K 1/16W	[M]
R4202	ERJ6GEYJ4R7V	4.7 1/10W	[M]
R4203	ERDS2TJ471T	470 1/4W	[M]
R4204	ERJ3GEYJ222V	2.2K 1/16W	[M]
R4205	ERJ6GEYJ471V	470 1/10W	[M]
R4206	ERJ3GEYJ103V	10K 1/16W	[M]
R4207	ERJ6GEYJ471V	470 1/10W	[M]
R4213	ERJ3GEYJ470V	47 1/16W	[M]
R4301	ERJ3GEYJ473V	47K 1/16W	[M]
R4302	ERJ3GEYJ473V	47K 1/16W	[M]
R4303	ERJ3GEYJ223V	22K 1/16W	[M]
R4304	ERJ3GEYJ223V	22K 1/16W	[M]
R4500	ERJ3GEYJ102V	1K 1/16W	[M]
R4502	ERJ3GEYJ473V	47K 1/16W	[M]
R4503	ERJ3GEYJ473V	47K 1/16W	[M]
R4505	ERJ3GEYJ103V	10K 1/16W	[M]
R4506	ERJ3GEYJ682V	6.8K 1/16W	[M]
R4508	ERJ3GEYJ102V	1K 1/16W	[M]
R4509	ERJ3GEYJ473V	47K 1/16W	[M]
R4510	ERJ3GEYJ103V	10K 1/16W	[M]
R4511	ERJ3GEYJ473V	47K 1/16W	[M]
R4512	ERJ3GEYJ682V	6.8K 1/16W	[M]
R4513	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4525	ERJ3GEYJ102V	1K 1/16W	[M]
R4527	ERJ3GEYJ471V	470 1/16W	[M]
R4528	ERJ3GEYJ471V	470 1/16W	[M]
R4529	ERJ3GEYJ681V	680 1/16W	[M]
R4534	D0GB124JA002	120K 1/16W	[M]
R4538	D0GB393JA002	39K 1/16W	[M]
R4539	ERJ3GEYJ102V	1K 1/16W	[M]
R4540	ERJ3GEYJ102V	1K 1/16W	[M]
R4553	F1J0J106A014	10M 1/10W	[M]
R4557	F1H1A105A025	1M 1W	[M]
R4563	ERJ3GEYJ102V	1K 1/16W	[M]
R4581	ERJ3GEYJ471V	470 1/16W	[M]
R4582	ERJ3GEYJ471V	470 1/16W	[M]
R4601	ERJ3GEYJ243V	24K 1/16W	[M]
R4602	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5101	D0GB560JA002	56 1/16W	[M]
R5102	D0GB560JA002	56 1/16W	[M]
R5103	D0GB560JA002	56 1/16W	[M]
R5105	ERJ12Y0R00H	0 1/2W	[M]
R5107	ERJ3GEY0R00V	0 1/16W	[M]
R5108	ERJ3GEY0R00V	0 1/16W	[M]
R5109	ERJ3GEY0R00V	0 1/16W	[M]
R5111	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5112	ERJ12YJ270H	27 1/2W	[M]
R5113	ERJ3GEYJ473V	47K 1/16W	[M]
R5114	ERJ3GEYJ223V	22K 1/16W	[M]
R5115	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5116	ERJ12YJ270H	27 1/2W	[M]
R5117	ERJ3GEYJ473V	47K 1/16W	[M]
R5120	ERJ3GEY0R00V	0 1/16W	[M]
R5121	D0GB560JA002	56 1/16W	[M]
R5122	D0GB560JA002	56 1/16W	[M]
R5123	D0GB560JA002	56 1/16W	[M]
R5124	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5152	ERJ3GEYJ102V	1K 1/16W	[M]
R5201	ERJ3GEY0R00V	0 1/16W	[M]
R5202	ERJ3GEY0R00V	0 1/16W	[M]
R5203	ERJ3GEY0R00V	0 1/16W	[M]
R5221	ERJ3GEY0R00V	0 1/16W	[M]
R5222	ERJ3GEYJ102V	1K 1/16W	[M]
R5223	ERJ3GEYJ331V	330 1/16W	[M]
R5225	ERJ3GEY0R00V	0 1/16W	[M]
R5226	ERJ3GEYJ102V	1K 1/16W	[M]
R5227	ERJ3GEYJ331V	330 1/16W	[M]
R5231	J0JCC0000119	INDUCTOR	[M]
R5232	J0JCC0000119	INDUCTOR	[M]
R5233	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5234	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5241	ERJ3GEYJ221V	220 1/16W	[M]
R5242	ERJ3GEYJ823V	82K 1/16W	[M]
R5257	ERJ3GEY0R00V	0 1/16W	[M]
R5262	ERJ3GEY0R00V	0 1/16W	[M]
R5281	D0GB105JA002	1M 1/16W	[M]
R5294	ERJ3GEYJ123V	12K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5295	ERJ3GEYJ243V	24K 1/16W	[M]
R5320	ERJ3GEY0R00V	0 1/16W	[M]
R6001	ERJ3GEYJ102V	1K 1/16W	[M]
R6002	ERJ3GEYJ102V	1K 1/16W	[M]
R6003	ERJ3GEYJ223V	22K 1/16W	[M]
R6004	ERJ3GEYJ102V	1K 1/16W	[M]
R6005	ERJ3GEYJ473V	47K 1/16W	[M]
R6006	D0GB183JA002	18K 1/16W	[M]
R6007	ERJ3GEYJ103V	10K 1/16W	[M]
R6008	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6009	D0GB333JA002	33K 1/16W	[M]
R6010	ERJ3GEYJ103V	10K 1/16W	[M]
R6011	ERJ3GEYG223V	22K 1/16W	[M]
R6012	ERJ3GEYJ471V	470 1/16W	[M]
R6013	D0GB105JA002	1M 1/16W	[M]
R6016	ERJ3GEYG103V	10K 1/16W	[M]
R6017	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6101	ERJ3GEYJ102V	1K 1/16W	[M]
R6103	ERJ3GEYJ102V	1K 1/16W	[M]
R6104	ERJ3GEYJ221V	220 1/16W	[M]
R6105	ERJ3GEYJ221V	220 1/16W	[M]
R6106	ERJ3GEYJ221V	220 1/16W	[M]
R6107	ERJ3GEYJ221V	220 1/16W	[M]
R6201	D0GB332JA002	3.3K 1/16W	[M]
R6201	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6202	ERJ3GEYJ103V	10K 1/16W	[M]
R6206	ERJ3GEYJ103V	10K 1/16W	[M]
R6210	D0GB101JA002	100 1/16W	[M]
R6211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6215	ERJ3GEYJ103V	10K 1/16W	[M]
R6216	ERJ3GEYJ102V	1K 1/16W	[M]
R6251	ERJ3RBD101V	100 3W	[M]
R6252	ERJ3RBD101V	100 3W	[M]
R6253	ERJ3RBD102V	1K 3W	[M]
R6307	ERJ6GEYJ472V	4.7K 1/10W	[M]
R6309	ERDS2TJ182T	1.8K 1/4W	[M]
R6503	ERJ3RBD331V	330 3W	[M]
R6504	ERJ3GEY0R00V	0 1/16W	[M]
R6505	ERJ3GEY0R00V	0 1/16W	[M]
R6563	ERJ3GEYJ103V	10K 1/16W	[M]
R6565	ERJ3GEYJ470V	47 1/16W	[M]
R6566	D0GB100JA002	10 1/16W	[M]
R6602	ERJ3GEYJ103V	10K 1/16W	[M]
R6603	ERJ3GEYJ221V	220 1/16W	[M]
R7401	ERJ3GEYJ102V	1K 1/16W	[M]
R7402	D0GB183JA002	18K 1/16W	[M]
R7403	D0GB183JA002	18K 1/16W	[M]
R7751	ERJ3GEYJ102V	1K 1/16W	[M]
R31125	ERJ3GEYG101V	100 1/16W	[M]
R31126	ERJ3GEYG122V	150 1/16W	[M]
R31127	ERJ3GEYG122V	1.2K 1/16W	[M]
R33001	ERDS2TJ271T	270 1/4W	[M]
R33528	ERJ3GEYJ103V	10K 1/16W	[M]
R34001	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R34002	ERJ3GEYJ102V	1K 1/16W	[M]
R34003	ERDS2TJ471T	470 1/4W	[M]
R34004	ERDS2TJ471T	470 1/4W	[M]
R34005	D0GB562JA002	5.6K 1/16W	[M]
R34303	ERJ3GEYJ222V	2.2K 1/16W	[M]
R34305	ERJ3GEY0R00V	0 1/16W	[M]
R34306	ERJ3GEY0R00V	0 1/16W	[M]
R34313	ERJ3GEYJ223V	22K 1/16W	[M]
R34329	ERJ3GEYJ104V	100K 1/16W	[M]
R34330	ERJ3GEYJ104V	100K 1/16W	[M]
R34331	D0GB272JA002	2.7K 1/16W	[M]
R34332	D0GB272JA002	2.7K 1/16W	[M]
R34352	ERJ3GEYJ472V	4.7K 1/16W	[M]
R34353	ERJ3GEYJ472V	4.7K 1/16W	[M]
R34355	ERJ3GEYJ222V	2.2K 1/16W	[M]
R34356	ERJ3GEYJ222V	2.2K 1/16W	[M]
R34362	ERJ3GEYJ103V	10K 1/16W	[M]
R34403	ERDS2TJ102T	1K 1/4W	[M]
R34422	ERJ3GEYJ473V	47K 1/16W	[M]
R34423	ERJ3GEYJ473V	47K 1/16W	[M]
R34428	D0HB821ZA002	820 3W	[M]
R34429	D0HB821ZA002	820 3W	[M]
R34471	ERJ3GEYJ223V	22K 1/16W	[M]
R36001	ERJ3GEYJ103V	10K 1/16W	[M]
R36002	ERJ3GEYJ103V	10K 1/16W	[M]
R36003	ERJ3GEYJ103V	10K 1/16W	[M]
R36004	ERJ3GEYJ103V	10K 1/16W	[M]
R36005	ERJ3GEYJ103V	10K 1/16W	[M]
R36006	ERJ3GEYJ473V	47K 1/16W	[M]
R36007	ERJ3GEYJ473V	47K 1/16W	[M]
R36008	ERJ3GEYJ473V	47K 1/16W	[M]
R36009	ERJ3GEYJ473V	47K 1/16W	[M]
R36010	ERDS2TJ391T	390 1/4W	[M]
R36011	ERJ6GEYJ103V	10K 1/10W	[M]
R36012	D0GB122JA019	1.2K 1/16W	[M]
R36013	ERJ3GEYJ103V	10K 1/16W	[M]
R36014	D0GB122JA019	1.2K 1/16W	[M]
R36015	ERJ6GEYJ103V	10K 1/10W	[M]
R36016	ERJ3GEYJ822V	8.2K 1/16W	[M]
R36018	ERJ3GEYJ103V	10K 1/16W	[M]
R36019	ERJ3GEYJ103V	10K 1/16W	[M]
R36021	ERJ3GEYJ303V	30K 1/16W	[M]
R36022	ERJ3GEYJ473V	47K 1/16W	[M]
R36024	ERJ3GEYJ331V	330 1/16W	[M]
R36025	ERJ3GEYJ331V	330 1/16W	[M]
R36029	ERJ3GEYJ103V	10K 1/16W	[M]
R36030	ERJ3GEYJ103V	10K 1/16W	[M]
R36031	ERJ3GEYJ103V	10K 1/16W	[M]
R36032	ERJ3GEYJ331V	330 1/16W	[M]
R36033	ERJ3GEYJ221V	220 1/16W	[M]
R36034	ERJ3GEYJ221V	220 1/16W	[M]
R36036	ERJ3GEYJ102V	1K 1/16W	[M]
R36037	ERJ3GEYJ102V	1K 1/16W	[M]
R36057	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R36058	ERJ3GEYJ473V	47K 1/16W	[M]
R36059	ERJ3GEYJ103V	10K 1/16W	[M]
R36061	ERJ3GEYJ153V	15K 1/16W	[M]
R36069	ERJ3GEYJ153V	15K 1/16W	[M]
R36071	ERDS2TJ271T	270 1/4W	[M]
R36074	ERJ3GEYJ103V	10K 1/16W	[M]
R36075	ERJ3GEYJ103V	10K 1/16W	[M]
R36076	ERJ3GEYJ103V	10K 1/16W	[M]
R36077	ERJ3GEYJ103V	10K 1/16W	[M]
R36078	ERJ3GEYJ102V	1K 1/16W	[M]
R36079	ERJ3GEYJ102V	1K 1/16W	[M]
R36080	ERJ3GEYJ102V	1K 1/16W	[M]
R36081	ERJ3GEYJ103V	10K 1/16W	[M]
R36082	ERJ3GEYJ103V	10K 1/16W	[M]
R36083	ERJ3GEYJ103V	10K 1/16W	[M]
R36101	ERJ3GEYJ473V	47K 1/16W	[M]
R36102	ERJ3GEYJ473V	47K 1/16W	[M]
R36103	ERJ3GEYJ473V	47K 1/16W	[M]
R36104	ERJ3GEYJ473V	47K 1/16W	[M]
R36105	ERJ3GEYJ473V	47K 1/16W	[M]
R36106	ERJ3GEYJ473V	47K 1/16W	[M]
R36107	ERJ3GEYJ473V	47K 1/16W	[M]
R36108	ERJ3GEYJ473V	47K 1/16W	[M]
R36109	ERJ3GEYJ473V	47K 1/16W	[M]
R36110	ERJ3GEYJ473V	47K 1/16W	[M]
R36111	ERJ3GEYJ473V	47K 1/16W	[M]
R36112	ERJ3GEYJ473V	47K 1/16W	[M]
R36113	ERJ3GEYJ473V	47K 1/16W	[M]
R36114	ERJ3GEYJ473V	47K 1/16W	[M]
R36115	ERJ3GEYJ473V	47K 1/16W	[M]
R36116	ERJ3GEYJ473V	47K 1/16W	[M]
R36117	ERJ3GEYJ473V	47K 1/16W	[M]
R36118	ERJ3GEYJ473V	47K 1/16W	[M]
R36119	ERJ3GEYJ473V	47K 1/16W	[M]
R36120	ERJ3GEYJ473V	47K 1/16W	[M]
R36121	ERJ3GEYJ473V	47K 1/16W	[M]
R36122	ERJ3GEYJ473V	47K 1/16W	[M]
R36123	ERJ3GEYJ473V	47K 1/16W	[M]
R36124	ERJ3GEYJ473V	47K 1/16W	[M]
R36125	ERDS2TJ100T	10 1/4W	[M]
K101	ERJ3GEY0R00V	0 1/16W	[M]
K102	ERJ3GEY0R00V	0 1/16W	[M]
K103	ERJ3GEY0R00V	0 1/16W	[M]
K105	ERJ3GEY0R00V	0 1/16W	[M]
K106	ERJ3GEY0R00V	0 1/16W	[M]
K108	ERJ3GEY0R00V	0 1/16W	[M]
K109	ERJ3GEY0R00V	0 1/16W	[M]
K111	ERJ3GEY0R00V	0 1/16W	[M]
K114	ERJ3GEY0R00V	0 1/16W	[M]
K116	ERJ3GEY0R00V	0 1/16W	[M]
K117	ERJ3GEY0R00V	0 1/16W	[M]
K170	ERJ3GEY0R00V	0 1/16W	[M]
K172	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
K173	ERJ3GEY0R00V	0 1/16W	[M]
K174	ERJ3GEY0R00V	0 1/16W	[M]
K175	ERJ3GEY0R00V	0 1/16W	[M]
K176	ERJ3GEY0R00V	0 1/16W	[M]
K201	ERJ3GEY0R00V	0 1/16W	[M]
K206	ERJ3GEY0R00V	0 1/16W	[M]
K207	ERJ3GEY0R00V	0 1/16W	[M]
K208	ERJ3GEY0R00V	0 1/16W	[M]
K209	ERJ3GEY0R00V	0 1/16W	[M]
K411	ERJ3GEY0R00V	0 1/16W	[M]
K901	ERJ3GEY0R00V	0 1/16W	[M]
K902	ERJ3GEY0R00V	0 1/16W	[M]
K2004	ERJ3GEY0R00V	0 1/16W	[M]
K3002	ERJ3GEY0R00V	0 1/16W	[M]
K3007	ERJ3GEY0R00V	0 1/16W	[M]
K3009	ERJ3GEY0R00V	0 1/16W	[M]
K3011	ERJ6GEY0R00V	0 1/10W	[M]
K3012	ERJ3GEY0R00V	0 1/16W	[M]
K3101	ERJ3GEY0R00V	0 1/16W	[M]
K3106	ERJ3GEY0R00V	0 1/16W	[M]
K6201	ERJ3GEY0R00V	0 1/16W	[M]
K6221	ERJ3GEY0R00V	0 1/16W	[M]
K6222	ERJ3GEY0R00V	0 1/16W	[M]
K6254	ERJ3GEY0R00V	0 1/16W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
K6303	ERJ3GEY0R00V	0 1/16W	[M]
K6601	ERJ3GEY0R00V	0 1/16W	[M]
K6606	ERJ3GEY0R00V	0 1/16W	[M]
K7401	ERJ3GEY0R00V	0 1/16W	[M]
K7451	ERJ3GEY0R00V	0 1/16W	[M]
K33501	ERJ3GEY0R00V	0 1/16W	[M]
K33503	ERJ3GEY0R00V	0 1/16W	[M]
RA2021	EXBV4V102JV	1K 1/16W	[M]
RA2022	EXBV4V472JV	4.7K 1/16W	[M]
RA2501	EXBV8V473JV	47K 1/16W	[M]
RA3001	EXBV8V820JV	82 1/16W	[M]
RA3002	EXBV8V820JV	82 1/16W	[M]
RA3003	EXBV8V820JV	82 1/16W	[M]
RA3004	EXBV8V820JV	82 1/16W	[M]
RA3005	EXBV4V220JV	22 1/16W	[M]
RA3006	EXBV8V820JV	82 1/16W	[M]
RA3007	EXBV8V820JV	82 1/16W	[M]
RA3008	EXBV8V820JV	82 1/16W	[M]
RA3009	EXBV8V820JV	82 1/16W	[M]
RA3010	EXBV8V820JV	82 1/16W	[M]
RA3011	EXBV8V820JV	82 1/16W	[M]
RA3012	EXBV8V820JV	82 1/16W	[M]
RA3013	EXBV4V220JV	22 1/16W	[M]
RA3051	EXBV4V101JV	100 1/16W	[M]
RA3053	EXBV4V101JV	100 1/16W	[M]
RA5101	EXBV4V560JV	56 1/16W	[M]
RA5102	EXBV8V560JV	56 1/16W	[M]
RA5103	EXBV4V560JV	56 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA5201	EXBV8V101JV	100 1/16W	[M]
RA6202	EXBV4V103JV	10K 1/16W	[M]
RA6203	EXBV4V472JV	4.7K 1/16W	[M]
RA6204	EXBV4V103JV	10K 1/16W	[M]
RA6205	EXBV8V103JV	10K 1/16W	[M]
RA6206	EXBV4V473JV	47K 1/16W	[M]
W701	ERJ6GEY0R00V	0 1/10W	[M]
W702	ERJ3GEY0R00V	0 1/16W	[M]
W704	ERJ6GEY0R00V	0 1/10W	[M]
W710	ERJ6GEY0R00V	0 1/10W	[M]
W711	ERJ3GEY0R00V	0 1/16W	[M]
W712	ERJ3GEY0R00V	0 1/16W	[M]
W713	ERJ6GEY0R00V	0 1/10W	[M]
W714	ERJ6GEY0R00V	0 1/10W	[M]
W715	ERJ3GEY0R00V	0 1/16W	[M]
W716	ERJ6GEY0R00V	0 1/10W	[M]
W717	ERJ3GEY0R00V	0 1/16W	[M]
W718	ERJ6GEY0R00V	0 1/10W	[M]
W719	ERJ6GEY0R00V	0 1/10W	[M]
W724	ERJ3GEY0R00V	0 1/16W	[M]
W727	ERJ6GEY0R00V	0 1/10W	[M]
W728	ERJ6GEY0R00V	0 1/10W	[M]
W730	ERJ6GEY0R00V	0 1/10W	[M]
W731	ERJ6GEY0R00V	0 1/10W	[M]
W733	ERJ6GEY0R00V	0 1/10W	[M]
W736	ERJ6GEY0R00V	0 1/10W	[M]
W737	ERJ3GEY0R00V	0 1/16W	[M]
W738	ERJ3GEY0R00V	0 1/16W	[M]
W739	ERJ6GEY0R00V	0 1/10W	[M]
W740	ERJ6GEY0R00V	0 1/10W	[M]
W741	ERJ6GEY0R00V	0 1/10W	[M]
W742	ERJ3GEY0R00V	0 1/16W	[M]
W743	ERJ3GEY0R00V	0 1/16W	[M]
W744	ERJ6GEY0R00V	0 1/10W	[M]
W745	ERJ3GEY0R00V	0 1/16W	[M]
W746	ERJ3GEY0R00V	0 1/16W	[M]
W747	ERJ6GEY0R00V	0 1/10W	[M]
W748	ERJ6GEY0R00V	0 1/10W	[M]
W751	ERJ3GEY0R00V	0 1/16W	[M]
W752	ERJ6GEY0R00V	0 1/10W	[M]
W753	ERJ6GEY0R00V	0 1/10W	[M]
W754	ERJ3GEY0R00V	0 1/16W	[M]
W755	ERJ3GEY0R00V	0 1/16W	[M]
W756	ERJ6GEY0R00V	0 1/10W	[M]
W757	ERJ6GEY0R00V	0 1/10W	[M]
W758	ERJ3GEY0R00V	0 1/16W	[M]
W759	ERJ3GEY0R00V	0 1/16W	[M]
W760	ERJ3GEY0R00V	0 1/16W	[M]
W761	ERJ3GEY0R00V	0 1/16W	[M]
W762	ERJ3GEY0R00V	0 1/16W	[M]
W764	ERJ3GEY0R00V	0 1/16W	[M]
W766	ERJ6GEY0R00V	0 1/10W	[M]
W768	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W770	ERJ3GEY0R00V	0 1/16W	[M]
W773	ERJ6GEY0R00V	0 1/10W	[M]
W774	ERJ3GEY0R00V	0 1/16W	[M]
W776	ERJ3GEY0R00V	0 1/16W	[M]
W778	ERJ3GEY0R00V	0 1/16W	[M]
W781	ERJ3GEY0R00V	0 1/16W	[M]
W798	ERJ3GEY0R00V	0 1/16W	[M]
W799	ERJ3GEY0R00V	0 1/16W	[M]
		CAPACITORS	
C101	ECJ1VB1H103K	0.01 50V	[M]
C102	ECEA1HKA3R3B	3.3 50V	[M]
C103	ECUV1E473KBV	0.047 25V	[M]
C104	ECEA0JKA101B	100 6.3V	[M]
C105	ECJ1VB1H102K	1000P 50V	[M]
C106	ECJ1VB1H103K	0.01 50V	[M]
C107	ECA0JM102B	1000 6.3V	[M]
C108	ECEA1CKA220B	22 16V	[M]
C109	ECJ1VB1H103K	0.01 50V	[M]
C110	ECJ1VB1H102K	1000P 50V	[M]
C111	ECJ1VC1H180J	18P 50V	[M]
C112	ECJ1VC1H150J	15P 50V	[M]
C113	ECUVNE104KBV	0.1 25V	[M]
C114	ECUV1H560KCV	56P 50V	[M]
C115	ECJ1VC1H560J	56P 50V	[M]
C116	ECJ1VC1H560J	56P 50V	[M]
C201	ECEA1HKA4R7B	4.7 50V	[M]
C201	ECJ2YB1H104K	0.1 50V	[M]
C204	F1J1E104A081	0.1 25V	[M]
C205	F1J1E104A081	0.1 25V	[M]
C206	ECJ2VB1H102K	1000P 50V	[M]
C207	ECJ2YB1H153K	0.015 50V	[M]
C212	F1H1A105A025	1 10V	[M]
C213	F1H1A105A025	1 10V	[M]
C214	ECEA1HKAR47B	0.47 50V	[M]
C215	ECEA1HKAR47B	0.47 50V	[M]
C217	ECEA1HKAR47B	0.47 50V	[M]
C218	ECEA1HKAR47B	0.47 50V	[M]
C219	ECEA1HKA4R7B	4.7 50V	[M]
C220	ECEA1HKA4R7B	4.7 50V	[M]
C221	ECEA1CKA101B	100 16V	[M]
C222	F1H1A105A025	1 10V	[M]
C223	F1H1H5R0A759	5.0P 50V	[M]
C224	ECJ1VC1H120J	12P 50V	[M]
C225	ECEA1HKA010B	1 50V	[M]
C226	ECJ1VB1H222K	2200P 50V	[M]
C227	ECEA1HKA2R2B	2.2 50V	[M]
C228	ECJ1VB1H103K	0.01 50V	[M]
C229	ECEA1HKA2R2B	2.2 50V	[M]
C230	ECJ1VB1H222K	2200P 50V	[M]
C231	ECEA1HKA010B	1 50V	[M]
C232	EEAFC0J101B	100P 6.3V	[M]
C233	ECEA0JKA470B	47 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C234	EEAFC0J101B	100P 6.3V	[M]
C235	F1H1A105A025	1 10V	[M]
C236	EEAFC0J101B	100P 6.3V	[M]
C237	ECEA1HKA010B	1 50V	[M]
C238	ECJ1VB1H222K	2200P 50V	[M]
C239	ECJ1VB1H103K	0.01 50V	[M]
C240	ECJ1VB1H222K	2200P 50V	[M]
C241	ECEA1HKA010B	1 50V	[M]
C241	ECJ1VB1H103K	0.01 50V	[M]
C242	ECJ1VB1H332K	3300P 50V	[M]
C242	F1H1A105A025	1 10V	[M]
C243	ECJ1VB1H103K	0.01 50V	[M]
C243	ECJ1VB1H332K	3300P 50V	[M]
C244	ECJ1VC1H101K	100P 50V	[M]
C244	F1H1A105A025	1 10V	[M]
C245	ECJ1VC1H101K	100P 50V	[M]
C245	F1H1A105A025	1 10V	[M]
C246	ECJ1VB1C223K	0.022 16V	[M]
C246	ECJ1VC1H101K	100P 50V	[M]
C247	ECEA1CKA100B	10 16V	[M]
C247	ECJ1VC1H101K	100P 50V	[M]
C248	ECEA1HKA010B	1 50V	[M]
C248	ECJ1VB1E103K	0.01 25V	[M]
C249	ECJ1VB1E103K	0.01 25V	[M]
C249	ECJ1VB1H103K	0.01 50V	[M]
C250	F1H1A105A025	1 10V	[M]
C251	ECEA1HKA010B	1 50V	[M]
C252	ECJ1VC1H471J	470P 50V	[M]
C253	ECEA1AKA221B	220 10V	[M]
C260	ECJ1VB1H103K	0.01 50V	[M]
C261	ERJ3GEY0R00V	0 1/16W	[M]
C301	ECEA1CKA100B	10 16V	[M]
C302	ECEA1CKA100B	10 16V	[M]
C303	ECUV1H101JCV	100P 50V	[M]
C306	ECUV1H101JCV	100P 50V	[M]
C308	ECEA1CKA100B	10 16V	[M]
C310	ECUV1H101JCV	100P 50V	[M]
C312	ECUV1H101JCV	100P 50V	[M]
C314	ECEA1CKA100B	10 16V	[M]
C315	ECEA1CKA100B	10 16V	[M]
C316	ECJ1VB1H471K	470P 50V	[M]
C317	ECUV1H470JCV	47P 50V	[M]
C319	ECJ1VB1H103K	0.01 50V	[M]
C320	ECEA1CKA100B	10 16V	[M]
C321	ECJ1VB1H471K	470P 50V	[M]
C322	ECJ1VB1H103K	0.01 50V	[M]
C323	ECUV1H470JCV	47P 50V	[M]
C329	ECEA1CKA100B	10 16V	[M]
C331	ECEA1CKA220B	22 16V	[M]
C332	ECUV1H101JCV	100P 50V	[M]
C334	ECEA1CKA220B	22 16V	[M]
C335	ECUV1H101JCV	100P 50V	[M]
C336	ECEA1CKA100B	10 16V	[M]
C337	ECEA1CKA220B	22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C338	ECUV1H101JCV	100P 50V	[M]
C340	ECEA1CKA220B	22 16V	[M]
C341	ECUV1H101JCV	100P 50V	[M]
C342	ECEA1CKA220B	22 16V	[M]
C343	ECUV1H101JCV	100P 50V	[M]
C345	ECEA1CKA220B	22 16V	[M]
C346	ECUV1H101JCV	100P 50V	[M]
C347	ECEA1HKA3R3B	3.3 50V	[M]
C360	ECEA1HKA010B	1 50V	[M]
C361	ECUVNE104KBV	0.1 25V	[M]
C362	ECEA1CKA100B	10 16V	[M]
C363	ECJ1VC1H101K	100P 50V	[M]
C364	ECEA1CKA100B	10 16V	[M]
C365	ECEA1HKAR15B	0.15 50V	[M]
C366	ECEA1HKA010B	1 50V	[M]
C367	ECEA1CKA100B	10 16V	[M]
C368	ECJ1VC1H101K	100P 50V	[M]
C369	ECEA1CKA100B	10 16V	[M]
C370	ECEA1HKAR15B	0.15 50V	[M]
C371	ECJ1VB1H103K	0.01 50V	[M]
C372	ECEA1HKA010B	1 50V	[M]
C373	ECEA1CKA100B	10 16V	[M]
C374	ECJ1VB1H221K	220P 50V	[M]
C375	ECEA1CKA100B	10 16V	[M]
C376	ECEA1HKA010B	1 50V	[M]
C377	ECJ1VB1H221K	220P 50V	[M]
C378	ECEA1CKA100B	10 16V	[M]
C379	ECEA1CKA100B	10 16V	[M]
C380	ECUV1H470JCV	47P 50V	[M]
C381	ECUV1H470JCV	47P 50V	[M]
C382	ECUVNE104KBV	0.1 25V	[M]
C383	ECUVNE104KBV	0.1 25V	[M]
C384	ECUVNE104KBV	0.1 25V	[M]
C401	ECEA1HKA3R3B	3.3 50V	[M]
C402	ECEA1CKA100B	10 16V	[M]
C403	ECEA1CKA100B	10 16V	[M]
C404	ECEA1HKA3R3B	3.3 50V	[M]
C406	ECEA1HKA4R7B	4.7 50V	[M]
C407	ECJ1VC1H101K	100P 50V	[M]
C408	ECJ1VC1H220J	22P 50V	[M]
C409	ECJ1VC1H101K	100P 50V	[M]
C410	ECJ1VB1H103K	0.01 50V	[M]
C411	ECJ1VC1H101K	100P 50V	[M]
C412	ECJ1VC1H220J	22P 50V	[M]
C413	ECJ1VB1H103K	0.01 50V	[M]
C414	ECJ1VC1H101K	100P 50V	[M]
C415	ECEA1HKA4R7B	4.7 50V	[M]
C416	ECEA1HKA4R7B	4.7 50V	[M]
C417	ECEA1HKA3R3B	3.3 50V	[M]
C701	F1H1A474A025	0.47 10V	[M]
C702	F1H1A474A025	0.47 10V	[M]
C703	ECEA1HKA010B	1 50V	[M]
C704	ECEA1HKA010B	1 50V	[M]
C705	ECJ1VC1H121J	120P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C706	ECJ1VC1H101K	100P 50V	[M]
C707	ECJ1VB1H103K	0.01 50V	[M]
C708	ECJ1VC1H101K	100P 50V	[M]
C709	ECJ1VC1H121J	120P 50V	[M]
C710	ECEA1CKA100B	10 16V	[M]
C711	ECEA1CKA100B	10 16V	[M]
C713	ECEA1HKA3R3B	3.3 50V	[M]
C714	ECUV1H101JCV	100P 50V	[M]
C716	ECJ1VB1H103K	0.01 50V	[M]
C717	ECJ1VC1H101K	100P 50V	[M]
C718	ECJ1VC1H560J	56P 50V	[M]
C719	ECEA1CKA100B	10 16V	[M]
C720	ECEA1CKA100B	10 16V	[M]
C721	ECEA1HKA010B	1 50V	[M]
C723	ECJ1VB1H102K	1000P 50V	[M]
C725	F1H1A474A025	0.47 10V	[M]
C726	ECA1CAK220XB	22 16V	[M]
C727	ECUV1C104KBV	0.1 16V	[M]
C728	ECEA1AKA330B	33 10V	[M]
C735	ECEA1HKA100B	10 50V	[M]
C751	ECA1HAK010XB	1 50V	[M]
C752	ECJ1VB1C333K	0.033 16V	[M]
C753	ECUV1C104KBV	0.1 16V	[M]
C754	ECJ1VC1H101K	100P 50V	[M]
C755	ECJ1VB1H471K	470P 50V	[M]
C757	ECJ1VB1C393K	0.039 16V	[M]
C758	ECUVNA154KBV	0.15 10V	[M]
C759	ECUVNC473KBV	0.047 16V	[M]
C760	ECJ1VB1H562K	5600P 50V	[M]
C761	ECJ1VB1C333K	0.033 16V	[M]
C762	ECUV1C104KBV	0.1 16V	[M]
C763	ECJ1VC1H101J	100P 50V	[M]
C764	ECA1HAK010XB	1 50V	[M]
C765	ECA1HAK010XB	1 50V	[M]
C766	ECA1HAK010XB	1 50V	[M]
C767	ECEA1HKA3R3B	3.3 50V	[M]
C768	ECEA1HKA4R7B	4.7 50V	[M]
C772	ECJ1VB1H103K	0.01 50V	[M]
C773	ECJ1VB1H103K	0.01 50V	[M]
C774	ECEA1CKA100B	10 16V	[M]
C775	ECEA1HKA4R7B	4.7 50V	[M]
C776	ECJ1VB1H103K	0.01 50V	[M]
C790	ECEA1CKA100B	10 16V	[M]
C791	ECEA1CKA100B	10 16V	[M]
C803	ECKR1H103ZF5	0.01 50V	[M]
C804	ECA1CM101B	100 16V	[M]
C805	ECA1CM100B	10 16V	[M]
C807	ECQE1104KF3	0.1 100V	[M]
C808	ECA1EM222E	2200 25V	[M]
C811	ECA1EM102B	1000 25V	[M]
C813	ECA1EM102B	1000 25V	[M]
C817	ECA1CM101B	100 16V	[M]
C818	ECJ1VB1H103K	0.01 50V	[M]
C861	ECJ1VB1H103K	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C862	ECJ1VB1H103K	0.01 50V	[M]
C863	ECEA1CKA100B	10 16V	[M]
C864	ECJ1VB1H103K	0.01 50V	[M]
C865	ECJ1VB1H103K	0.01 50V	[M]
C866	ECEA1CKA100B	10 16V	[M]
C900	ECJ1VB1H103K	0.01 50V	[M]
C901	ECJ1VB1H221K	220P 50V	[M]
C902	ECEA1CKA470B	47 16V	[M]
C903	ECJ1VB1H102K	1000P 50V	[M]
C904	ECUV1H473KBV	0.047 50V	[M]
C905	ECUV1H473KBV	0.047 50V	[M]
C911	ECUV1H101JCV	100P 50V	[M]
C912	ECUV1H101JCV	100P 50V	[M]
C1121	ECQU2A683MVA	0.068 100V	[M]
C1125	F1BAF1020020	1000P 10V	[M]
C1126	F1BAF331A013	330 10V	[M]
C1128	ECQU2A223MVA	0.022 100V	[M]
C1140	ECEA2EG121YE	120 250V	[M]
C1151	ECQB1H223JF3	0.022 50V	[M]
C1152	ECQB1H103JF3	0.01 50V	[M]
C1153	ECQV1H104JL3	0.1 50V	[M]
C1154	ECQB1H223JF3	0.022 50V	[M]
C1155	ECKN3A271KBP	270P 1000	[M]
C1200	ECQV1H104JL3	0.1 50V	[M]
C1210	ECKN3A272KBP	2700P 1000	[M]
C1230	ECA1HM220B	22 50V	[M]
C1240	F2A1A1020056	1000P 10V	[M]
C1241	ECA0JM221B	220 6.3V	[M]
C1250	F2A1E6810011	680P 25V	[M]
C1251	ECA1EM101B	100 25V	[M]
C1260	F2A1A1020056	1000P 10V	[M]
C1261	F2A1A1020056	1000P 10V	[M]
C1262	ECA1AM221B	220 10V	[M]
C1270	F2A1H470A147	47P 50V	[M]
C1280	F2A1H1010044	100P 50V	[M]
C1290	F2A1C4710055	470P 16V	[M]
C1291	ECA1CM101B	100 16V	[M]
C1341	ECJ1VF1H103Z	0.01 50V	[M]
C1342	ECEA1EKA4R7B	4.7 25V	[M]
C1351	ECJ1VF1H103Z	0.01 50V	[M]
C1352	ECEA0JKA220B	22 6.3V	[M]
C1381	ECUVNC104KBV	0.1 16V	[M]
C1382	ECEA0JKA220B	22 6.3V	[M]
C2001	EEVHB0J101P	100P 50V	[M]
C2001	F2G0J1010013	100P 6.3V	[M]
C2002	EEVFC0J101P	100P 6.3V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2003	F1H1A105A025	1 10V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2007	ECUVNC104ZFV	0.1 16V	[M]
C2008	ECUVNC104ZFV	0.1 16V	[M]
C2009	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2010	ECUVNC104ZFV	0.1 16V	[M]
C2011	ECUVNC104ZFV	0.1 16V	[M]
C2012	ECUV1C104KBV	0.1 16V	[M]
C2012	ECUVNC104ZFV	0.1 16V	[M]
C2013	ECUVNC104ZFV	0.1 16V	[M]
C2014	ECUVNC104ZFV	0.1 16V	[M]
C2015	ECJ1VC1H102J	1000P 50V	[M]
C2016	ECUV1H821JCV	820P 50V	[M]
C2017	ECUVNC104ZFV	0.1 16V	[M]
C2018	ECUVNC104ZFV	0.1 16V	[M]
C2021	EEVHB0J101P	100P 50V	[M]
C2022	ECUVNC104ZFV	0.1 16V	[M]
C2023	ECUVNC104ZFV	0.1 16V	[M]
C2024	ECUVNC104ZFV	0.1 16V	[M]
C2025	ECUVNC104ZFV	0.1 16V	[M]
C2031	ECUV1C104KBV	0.1 16V	[M]
C2032	ECJ1VF1A105Z	1 10V	[M]
C2034	F1H1C393A089	0.039 16V	[M]
C2035	ECJ1VB1H822K	8200P 50V	[M]
C2036	ECUV1C104KBV	0.1 16V	[M]
C2038	ECUV1C104KBV	0.1 16V	[M]
C2039	ECJ1VB1H103K	0.01 50V	[M]
C2040	ECJ1VC1H102J	1000P 50V	[M]
C2041	F1H1H331A765	330P 50V	[M]
C2042	F1H1H331A765	330P 50V	[M]
C2043	ECUV1H101JCV	100P 50V	[M]
C2044	F1H1H391A765	390P 50V	[M]
C2045	ECJ1VC1H102J	1000P 50V	[M]
C2046	ECJ1VC1H102J	1000P 50V	[M]
C2047	ECJ1VB1H103K	0.01 50V	[M]
C2048	ECUV1C153KBV	0.015 16V	[M]
C2050	ECUV1C333KBV	0.033 16V	[M]
C2051	ECEA0JKN220B	22 6.3V	[M]
C2051	ECUV1H680JCV	68 50V	[M]
C2053	ECUVNC104ZFV	0.1 16V	[M]
C2054	F1H1H681A796	680P 50V	[M]
C2055	ECJ1VB1H682K	6800P 50V	[M]
C2056	ECJ1VB1H272K	2700P 50V	[M]
C2057	ECJ1VB1H272K	2700P 50V	[M]
C2058	ECJ1VC1H102J	1000P 50V	[M]
C2059	ECUV1H821JCV	820 50V	[M]
C2060	ECJ1VC1H102J	1000P 16V	[M]
C2061	F1H1H331A765	330P 50V	[M]
C2062	F1H1H331A765	330P 50V	[M]
C2063	ECJ1VC1H102J	1000P 50V	[M]
C2064	ECJ1VC1H102J	1000P 50V	[M]
C2065	ECJ1VC1H102J	1000P 50V	[M]
C2066	ECJ1VB1H472K	4700P 50V	[M]
C2067	ECJ1VB1H472K	4700P 50V	[M]
C2073	ECUVNC104ZFV	0.1 16V	[M]
C2099	ECJ1VC1H681J	680P 50V	[M]
C2101	ECUVNC104ZFV	0.1 16V	[M]
C2501	ECJ1VF1C104Z	0.1 16V	[M]
C2501	EEVFC0J221P	220P 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2502	ECEA0JKA221B	220 6.3V	[M]
C2502	ECEV1CA101WP	100P 16V	[M]
C2503	ECEV1CA220WR	22 16V	[M]
C2503	ECUVNC104KBV	0.1 16V	[M]
C2504	ECJ1VB1E223K	0.022 25V	[M]
C2504	ECJ1VF1C104Z	0.1 16V	[M]
C2505	ECJ1VB1E223K	0.022 25V	[M]
C2505	ECJ1VF1C104Z	0.1 16V	[M]
C2506	ECJ1VB1A224K	0.22 10V	[M]
C2506	ECJ1VF1C104Z	0.1 16V	[M]
C2507	ECJ1VB1H102K	1000P 50V	[M]
C2507	ECJ1VF1C104Z	0.1 16V	[M]
C2508	ECJ1VB1H182K	1800P 50V	[M]
C2508	ECJ1VF1C104Z	0.1 16V	[M]
C2509	ECEA1CKA100B	10 16V	[M]
C2509	EEVFC1C100R	10 16V	[M]
C2510	ECJ1VF1C104Z	0.1 16V	[M]
C2510	ECUVNC104KBV	0.1 16V	[M]
C2511	ECJ1VF1C104Z	0.1 16V	[M]
C2511	ECUVNC104KBV	0.1 16V	[M]
C2512	ECJ1VF1C104Z	0.1 16V	[M]
C2512	ECUVNC104KBV	0.1 16V	[M]
C2513	ECJ1VF1C104Z	0.1 16V	[M]
C2513	F1H1A105A025	1 10V	[M]
C2514	ECJ1VF1H103Z	0.01 50V	[M]
C2515	ECJ1VF1H103Z	0.01 50V	[M]
C2519	ECJ1VF1H103Z	0.01 50V	[M]
C2551	ECJ1VB1C563K	0.056 16V	[M]
C2552	ECJ1VB1C563K	0.056 16V	[M]
C2561	ECJ1VB1C563K	0.056 16V	[M]
C2562	ECJ1VB1C563K	0.056 16V	[M]
C2571	ECA1EM101B	100 25V	[M]
C3001	ECJ1VB1H103K	0.01 50V	[M]
C3001	F2G0J331A015	330P 6.3V	[M]
C3002	ECJ1VC1H151J	150P 50V	[M]
C3002	F2G0J331A015	330P 6.3V	[M]
C3003	ECUVNC104KBV	0.1 16V	[M]
C3003	ECUVNC104ZFV	0.1 16V	[M]
C3004	ECJ1VC1H330J	33P 50V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104KBV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECJ1VC1H270J	27P 50V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104KBV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	ECUVNC104ZFV	0.1 16V	[M]
C3009	ECEA1HKA010B	1 50V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3010	F2A1E3R3A008	3.3P 25V	[M]
C3011	ECEA1HKA010B	1 50V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3012	F1H1H103A730	0.01 50V	[M]
C3013	ECEA1HKA2R2B	2.2 50V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
C3014	ECEA1HKA010B	1 50V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104KBV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECEA0JKA220B	22 6.3V	[M]
C3016	ECUVNC104ZFV	0.1 16V	[M]
C3017	ECUVNC104KBV	0.1 16V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECJ1VB1A224K	0.22 10V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ECJ1VC1H270J	27P 50V	[M]
C3019	ERJ3GEYJ331V	330 1/16W	[M]
C3020	ECUVNC104ZFV	0.1 16V	[M]
C3020	ERJ3GEY0R00V	0 1/16W	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3023	F2A1E3R3A008	3.3P 25V	[M]
C3024	ECJ1VC1H040C	4P 50V	[M]
C3024	ECUVNC104ZFV	0.1 16V	[M]
C3025	ECJ1VF1H223Z	0.022 50V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECEA0JKA101B	100 6.3V	[M]
C3026	ECUVNC104ZFV	0.1 16V	[M]
C3027	ECJ1VB1A224K	0.22 10V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECJ1VB1H472K	4700P 50V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104KBV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3030	ECJ1VB1C333K	0.033 16V	[M]
C3031	ECEA1EKA4R7B	4.7 25V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECJ2YB1C474K	0.47 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECEA1HKA4R7B	4.7 50V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3034	ECEA1HKA010B	1 50V	[M]
C3035	ECJ1VB1H103K	0.01 50V	[M]
C3036	ECEA1EKA4R7B	4.7 25V	[M]
C3037	F2G0J331A015	330P 6.3V	[M]
C3038	ECEA1CKA100B	10 16V	[M]
C3039	ECEA0JKA470B	47 6.3V	[M]
C3040	ECUVNC104KBV	0.1 16V	[M]
C3041	ECJ1VC1H220J	22P 50V	[M]
C3043	ECEA1HKA010B	1 50V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3066	ECUVNC104ZFV	0.1 16V	[M]
C3067	ECUVNC104ZFV	0.1 16V	[M]
C3068	ECUVNC104ZFV	0.1 16V	[M]
C3069	ECUVNC104ZFV	0.1 16V	[M]
C3070	ECUVNC104ZFV	0.1 16V	[M]
C3071	ECUVNC104ZFV	0.1 16V	[M]
C3072	ECUVNC104ZFV	0.1 16V	[M]
C3073	ECUVNC104ZFV	0.1 16V	[M]
C3074	ECUVNC104ZFV	0.1 16V	[M]
C3110	EEVHB0J101P	100P 6.3V	[M]
C3111	ECUVNC104ZFV	0.1 16V	[M]
C3116	ECUVNC104ZFV	0.1 16V	[M]
C3121	ECUVNC104ZFV	0.1 16V	[M]
C3201	ECA0JM471B	470 6.3V	[M]
C3203	ECJ1VF1H103Z	0.01 50V	[M]
C3204	ECUVNC104KBV	0.1 16V	[M]
C3205	ECJ1VF1H103Z	0.01 50V	[M]
C3207	ECUV1C104KBV	0.1 16V	[M]
C3213	ECUV1H120JCV	12P 50V	[M]
C3214	ECUV1H120JCV	12P 50V	[M]
C3215	ECJ1VB1H103K	0.01 50V	[M]
C3217	ECUV1H120JCV	12P 50V	[M]
C3218	ECUV1H120JCV	12P 50V	[M]
C3219	ECJ1VB1H103K	0.01 50V	[M]
C3222	ECJ1VC1H150J	15P 50V	[M]
C3223	ECJ1VC1H150J	15P 50V	[M]
C3224	ECJ1VB1H103K	0.01 50V	[M]
C3404	ECEA1HKA010B	1 50V	[M]
C3810	ECUVNC104KBV	0.1 16V	[M]
C3815	ECUVNC104KBV	0.1 16V	[M]
C4010	ECEA1CKA100B	10 16V	[M]
C4041	ECEA1EKA4R7B	4.7 25V	[M]
C4042	ECEA1EKA4R7B	4.7 25V	[M]
C4043	ECEA0JKA220B	22 6.3V	[M]
C4061	ECJ1VB1H103K	0.01 50V	[M]
C4062	ECEA0JKA330B	33 6.3V	[M]
C4063	F2A1E3R3A008	3.3P 25V	[M]
C4064	ECJ1VB1H182K	1800P 50V	[M]
C4065	ECJ1VB1H182K	1800P 50V	[M]
C4081	ECQB1H682JF3	6800P 50V	[M]
C4082	ECJ1VB1H471K	470P 50V	[M]
C4083	ECEA1CKA470B	47 16V	[M]
C4084	ECJ1VB1H182K	1800P 50V	[M]
C4085	ECJ1VB1E223K	0.022 25V	[M]
C4087	ECJ1VF1H103Z	0.01 50V	[M]
C4201	ECQB1H223JF3	0.022 50V	[M]
C4201	F2G0J331A015	330P 6.3V	[M]
C4207	ECUVNC104ZFV	0.1 16V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4211	F3F1A106A001	10 10V	[M]
C4213	F3F1A106A001	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C4216	F2G0J101A015	100P 6.3V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4219	F3F1A106A001	10 10V	[M]
C4220	F3F1A106A001	10 10V	[M]
C4222	F2G0J331A015	330P 6.3V	[M]
C4223	F2G0J331A015	330P 6.3V	[M]
C4230	F2G0J331A015	330P 6.3V	[M]
C4231	F2G0J331A015	330P 6.3V	[M]
C4233	F2G0J331A015	330P 6.3V	[M]
C4234	ECUVNC104ZFV	0.1 16V	[M]
C4235	ECUVNC104ZFV	0.1 16V	[M]
C4236	ECUVNC104ZFV	0.1 16V	[M]
C4237	ECUVNC104ZFV	0.1 16V	[M]
C4303	F2A1HR22A009	22 50V	[M]
C4304	F2A1HR22A009	22 50V	[M]
C4323	F2G0J331A015	330P 6.3V	[M]
C4501	ECUVNC104KBV	0.1 16V	[M]
C4502	ECEA1CKA100B	10 16V	[M]
C4503	ECEA1CKA100B	10 16V	[M]
C4504	ECEA1CKA100B	10 16V	[M]
C4505	ECEA0JKA330B	33 6.3V	[M]
C4506	ECEA1CKA100B	10 16V	[M]
C4507	ECEA0JKA220B	22 6.3V	[M]
C4508	ECJ1VB1C333K	0.033 16V	[M]
C4509	ECJ1VF1H103Z	0.01 50V	[M]
C4510	ECJ1VF1H103Z	0.01 50V	[M]
C4511	ECUVNC104KBV	0.1 16V	[M]
C4512	ECJ1VB1A224K	0.22 10V	[M]
C4513	ECEA0JKA220B	22 6.3V	[M]
C4514	ECEA1CKA100B	10 16V	[M]
C4515	ECEA0JKA330B	33 6.3V	[M]
C4516	ECEA1CKA100B	10 16V	[M]
C4517	ECEA0JKA220B	22 6.3V	[M]
C4518	ECJ1VF1H103Z	0.01 50V	[M]
C4519	ECA1CAK100XB	10 16V	[M]
C4520	ECA1CAK100XB	10 16V	[M]
C4521	ECEA1CKA100B	10 16V	[M]
C4522	ECEA0JKA220B	22 6.3V	[M]
C4523	ECJ1VF1H103Z	0.01 50V	[M]
C4524	ECUVNC104KBV	0.1 16V	[M]
C4525	ECEA1CKA220B	22 16V	[M]
C4534	ECQB1H153JF3	0.015 50V	[M]
C4535	ECQB1H153JF3	0.015 50V	[M]
C4536	ECJ1VF1H103Z	0.01 50V	[M]
C4537	ECJ2VC1H560G	56P 50V	[M]
C4538	ECJ1VF1H103Z	0.01 50V	[M]
C4563	ECUVNC104KBV	0.1 16V	[M]
C4565	ECUVNC104KBV	0.1 16V	[M]
C4567	F2A1E3R3A008	3.3P 25V	[M]
C4568	ECJ1VB1H103K	0.01 50V	[M]
C4570	ECUVNC104KBV	0.1 16V	[M]
C4572	ECEA1HKA2R2B	2.2 50V	[M]
C4574	ECEA1HKA3R3B	3.3 50V	[M]
C4575	ECUVNC104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C4576	ECJ1VB1C223K	0.022 16V	[M]
C4601	ECEA1CKA100B	10 16V	[M]
C5002	ECUVNC104KBV	0.1 16V	[M]
C5003	ECEA0JKA101B	100 6.3V	[M]
C5004	ECUVNC104KBV	0.1 16V	[M]
C5005	ECJ1VB1H103K	0.01 50V	[M]
C5006	ECJ1VB1H103K	0.01 50V	[M]
C5007	ECJ1VB1H103K	0.01 50V	[M]
C5008	ECJ1VB1H103K	0.01 50V	[M]
C5009	ECJ1VB1H103K	0.01 50V	[M]
C5010	ECJ1VB1H103K	0.01 50V	[M]
C5101	EEVHB1C100R	10 16V	[M]
C5102	ECJ1VF1C104Z	0.1 16V	[M]
C5103	ECJ1VF1C104Z	0.1 16V	[M]
C5111	EEVHB0J470R	47 6.3V	[M]
C5115	EEVHB0J470R	47 6.3V	[M]
C5123	ECJ1VF1C104Z	0.1 16V	[M]
C5151	ECJ1VF1C104Z	0.1 16V	[M]
C5152	F3K1A1060001	10 10V	[M]
C5201	EEVHB1C100R	10 16V	[M]
C5202	EEVHB1C100R	10 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5204	ECUVNC104ZFV	0.1 16V	[M]
C5205	ECUVNC104ZFV	0.1 16V	[M]
C5221	ECUVNC104ZFV	0.1 16V	[M]
C5221	ECUVNC104ZFV	0.1 16V	[M]
C5231	ECUV1C104KBV	0.1 16V	[M]
C5234	ECUVNC104ZFV	0.1 16V	[M]
C5235	ECUVNC104ZFV	0.1 16V	[M]
C5236	ECUVNC104ZFV	0.1 16V	[M]
C5254	ECJ1VB1H391K	390P 50V	[M]
C5256	ECJ1VB1H222K	2200P 50V	[M]
C5256	ECUV1C104KBV	0.1 16V	[M]
C5262	ECUV1H181JCV	180P 50V	[M]
C5264	F1H1C183A089	0.018 16V	[M]
C5271	ECJ1VB1H102K	1000P 50V	[M]
C5272	ECJ1VB1A224K	0.22 10V	[M]
C5273	ECJ1VB1H182K	1800P 50V	[M]
C5274	ECUV1C104KBV	0.1 16V	[M]
C5282	ECJ1VB1H103K	0.01 50V	[M]
C5290	ECJ1VB1H102K	1000P 50V	[M]
C5291	ECJ1VB1H272K	2700P 50V	[M]
C5292	ECUV1H101JCV	100P 50V	[M]
C5299	F1H1H331A765	330P 50V	[M]
C6001	ECJ1VC1H180J	18P 50V	[M]
C6002	ECJ1VC1H220J	22P 50V	[M]
C6003	ECJ1VC1H180J	18P 50V	[M]
C6004	ECJ1VC1H180J	18P 50V	[M]
C6005	ECEA1HKA3R3B	3.3 50V	[M]
C6006	ECJ1VC1H101J	100P 50V	[M]
C6007	ECJ1VC1H820J	82P 50V	[M]
C6008	ECJ1VC1H471J	470P 50V	[M]
C6009	ECJ1VF1H103Z	0.01 50V	[M]
C6010	ECJ1VF1H103Z	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6011	ECJ1VF1H103Z	0.01 50V	[M]
C6013	F1H1A105A025	1 10V	[M]
C6014	ECJ1VB1H102K	1000P 50V	[M]
C6015	ECJ1VB1C333K	0.033 16V	[M]
C6016	ECJ1VB1H102K	1000P 50V	[M]
C6017	ECJ1VC1H561J	560P 50V	[M]
C6019	ECJ1VB1H103K	0.01 50V	[M]
C6101	ECJ2VF1H104Z	0.1 50V	[M]
C6103	ECJ1VF1H103Z	0.01 50V	[M]
C6111	ECJ1VF1H104Z	0.1 50V	[M]
C6112	ECJ1VC1H120J	12P 50V	[M]
C6113	ECJ1VC1H120J	12P 50V	[M]
C6201	EEVHB0J330R	33 6.3V	[M]
C6202	ECUVNC104ZFV	0.1 16V	[M]
C6203	ECUVNC104ZFV	0.1 16V	[M]
C6204	ECUVNC104ZFV	0.1 16V	[M]
C6205	ECUVNC104ZFV	0.1 16V	[M]
C6206	ECUVNC104ZFV	0.1 16V	[M]
C6211	ECUV1H101JCV	100P 50V	[M]
C6215	ECUV1C104KBV	0.1 16V	[M]
C6221	ECUVNC104ZFV	0.1 16V	[M]
C6251	F3F1A106A001	10 10V	[M]
C6252	F3F1A106A001	10 10V	[M]
C6253	F3F1A106A001	10 10V	[M]
C6254	ECUVNC104ZFV	0.1 16V	[M]
C6255	ECUVNC104ZFV	0.1 16V	[M]
C6257	EEVHB0J101P	100P 6.3V	[M]
C6301	ECJ1VF1H103Z	0.01 50V	[M]
C6301	ECUVNC104ZFV	0.1 16V	[M]
C6302	ECJ1VF1H103Z	0.01 50V	[M]
C6302	ECUVNC104ZFV	0.1 16V	[M]
C6307	ECJ1VF1H103Z	0.01 50V	[M]
C6308	ECEA0JKA220B	22 6.3V	[M]
C6503	ECUV1H120JCV	12P 50V	[M]
C6505	ECJ1VC1H150J	15P 50V	[M]
C6561	EEE0JA330WR	33P 6.3V	[M]
C6563	EEVHB0J330R	33 6.3V	[M]
C6564	ECUVNC104ZFV	0.1 16V	[M]
C6566	ECUVNC104ZFV	0.1 16V	[M]
C6568	ECUVNC104ZFV	0.1 16V	[M]
C7401	ECEA1HKA010B	1 50V	[M]
C7405	ECEA0JKA220B	22 6.3V	[M]
C7406	ECJ1VC1H330J	33P 50V	[M]
C7407	ECJ1VC1H330J	33P 50V	[M]
C7709	ECJ1VB1H182K	1800P 50V	[M]
C7752	ECEA0JKA331Q	330 6.3V	[M]
C31125	ECA0JM221B	220 6.3V	[M]
C31154	ECA1CM221B	220 16V	[M]
C31160	F2A1A1020056	1000P 10V	[M]
C33001	ECJ1VF1H103Z	0.01 50V	[M]
C33014	ECA0JM221B	220 6.3V	[M]
C33015	ECA0JM221B	220 6.3V	[M]
C33017	ECJ1VF1H103Z	0.01 50V	[M]
C33501	ECA0JM221B	220 6.3V	[M]

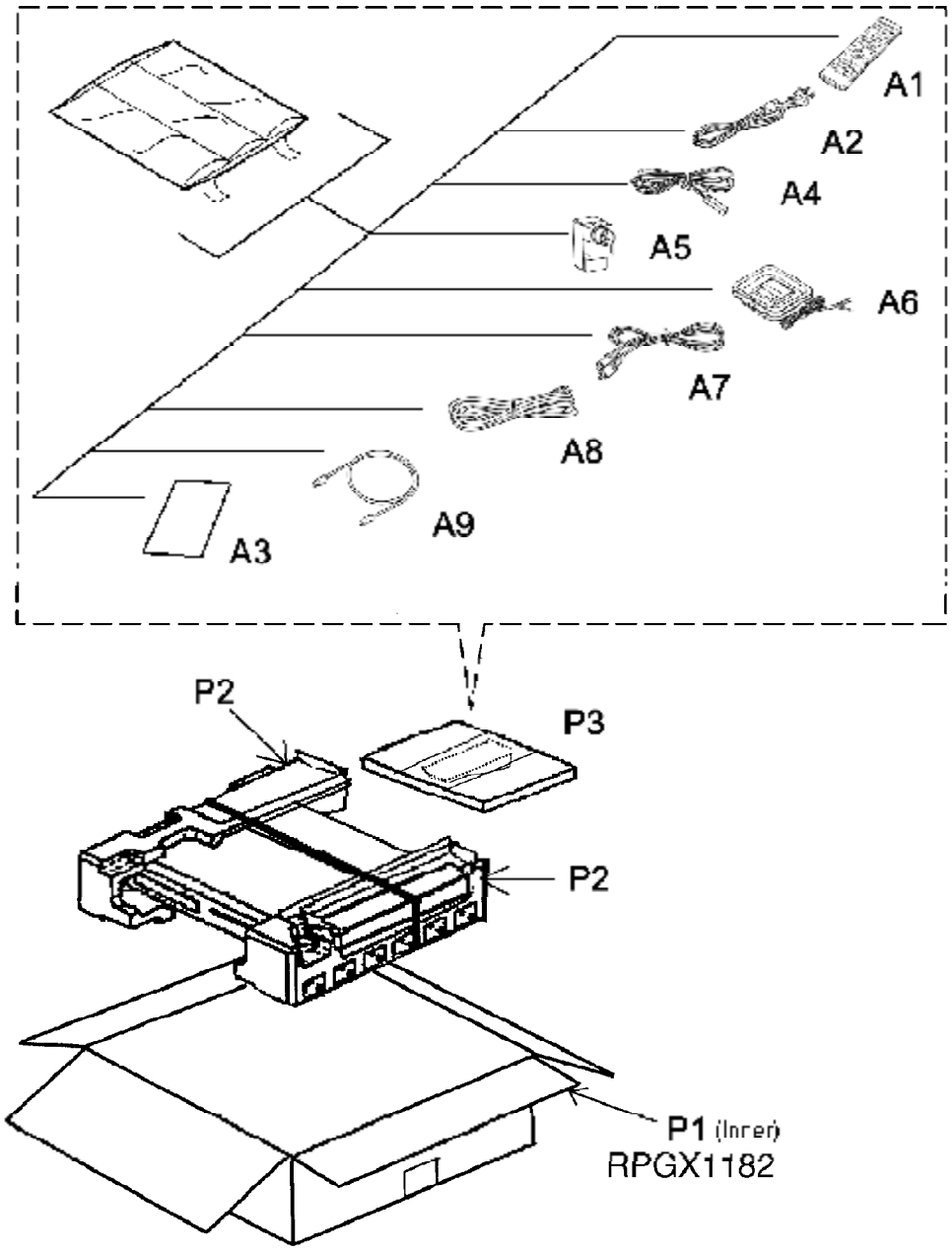
Ref. No.	Part No.	Part Name & Description	Remarks
C33502	ECJ1VF1H103Z	0.01 50V	[M]
C33503	ECQB1H103JF3	0.01 50V	[M]
C33504	ECEA1CKA470B	47 16V	[M]
C33505	ECEA1CKA470B	47 16V	[M]
C33506	ECEA1CKA470B	47 16V	[M]
C33507	ECA0JM102B	1000 6.3V	[M]
C33508	ECEA0JKA101B	100 6.3V	[M]
C33509	ECA0JM102B	1000 6.3V	[M]
C33510	ECEA0JKA101B	100 6.3V	[M]
C33511	ECA0JM331B	330 6.3V	[M]
C33512	ECA0JM331B	330 6.3V	[M]
C33514	ECUV1H101JCV	100P 50V	[M]
C33515	F1H1H820A230	82P 50V	[M]
C33517	ECJ1VF1H103Z	0.01 50V	[M]
C33519	ECA0JM102B	1000 6.3V	[M]
C33520	ECEA0JKA101B	100 6.3V	[M]
C33521	ECEA1CKA470B	47 16V	[M]
C33523	ECJ1VC1H820J	82P 50V	[M]
C33524	ECJ1VF1H103Z	0.01 50V	[M]
C34010	ECA0JM221B	220 6.3V	[M]
C34012	ECJ1VF1H103Z	0.01 50V	[M]
C34013	F2A1E4R7A087	4.7P 25V	[M]
C34015	F2A1E4R7A087	4.7P 25V	[M]
C34303	F2A1C470A111	47P 16V	[M]
C34304	F2A1C470A111	47P 16V	[M]
C34325	ECJ1VB1H102K	1000P 50V	[M]
C34326	ECJ1VB1H102K	1000P 50V	[M]
C34336	ECJ1VC1H101J	100P 50V	[M]
C34337	ECJ1VC1H101J	100P 50V	[M]
C34402	ECJ1VF1C104Z	0.1 16V	[M]
C34403	F2A1A101A148	100P 10V	[M]
C34404	F2A1A101A148	100P 10V	[M]
C34405	ECJ1VB1H102K	1000P 50V	[M]
C34412	ECUVNE104KBV	0.1 25V	[M]
C34414	ECEA1CKA470B	47 16V	[M]
C34415	ECEA1CKA470B	47 16V	[M]
C34416	ECEA1CKA100B	10 16V	[M]
C34417	ECEA1CKA100B	10 16V	[M]
C34418	ECEA1CKA100B	10 16V	[M]
C34427	ECJ1VB1H102K	1000P 50V	[M]
C36001	ECEA0JKA470B	47 6.3V	[M]
C36002	ECJ1VF1H103Z	0.01 50V	[M]
C36003	ECJ1VF1C104Z	0.1 16V	[M]
C36004	ECJ1VF1H104Z	0.1 50V	[M]
C36005	ECJ1VF1H103Z	0.01 50V	[M]
C36006	ECEA1VKA100B	10 35V	[M]
C36008	F2A0J470A117	47P 6.3V	[M]
C36014	ECJ1VF1H103Z	0.01 50V	[M]
C36015	ECJ1VF1H103Z	0.01 50V	[M]
C36016	ECJ1VF1H103Z	0.01 50V	[M]
C36021	ECJ1VF1C104Z	0.1 16V	[M]
C36022	ECJ1VF1C104Z	0.1 16V	[M]
C36055	ECJ1VF1H103Z	0.01 50V	[M]
C36071	ECJ1VF1H103Z	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C36072	F2A0J470A117	47P 6.3V	[M]

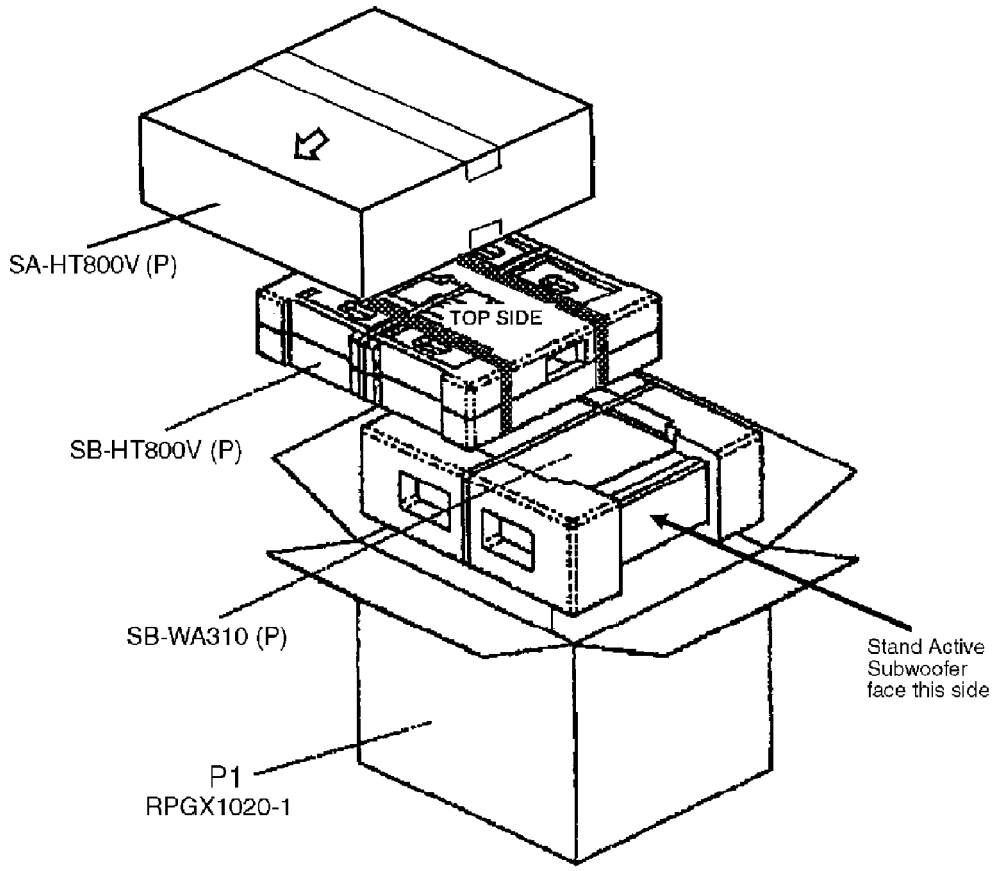
24.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1020-1	PACKING CASE (OUTER)	[M]
P1	RPGX1182	PACKING CASE (INNER)	[M]
P2	RPNX0165-1	POLYFOAM	[M]
P3	VPF1131	POLY BAG	[M]
		ACCESSORIES	
A1	EUR7623X50	REMOTE CONTROL	[M]
A1-1	UR76EC2303B	R/C BATTERY COVER	[M]
A2	K2CB2CB00006	POWER CORD (UL)	[M] ⚠
A3	RQT6951-3P	O/I BOOK (En)	[M]
A4	RSA0007-L	FM ANTENNA	[M]
A5	K2RC021B0001	ADAPTOR	[M]
A6	N1DAAAA00002	AM LOOP ANTENNA	[M]
A7	RJL1P016B15A	VIDEO CABLE	[M]
A8	K1HA25HA0001	SYSTEM CABLE	[M]
A9	VJA1125	RF AXIAL CABLE	[M]

24.6. Packaging



(SA-HT800 PACKAGING)

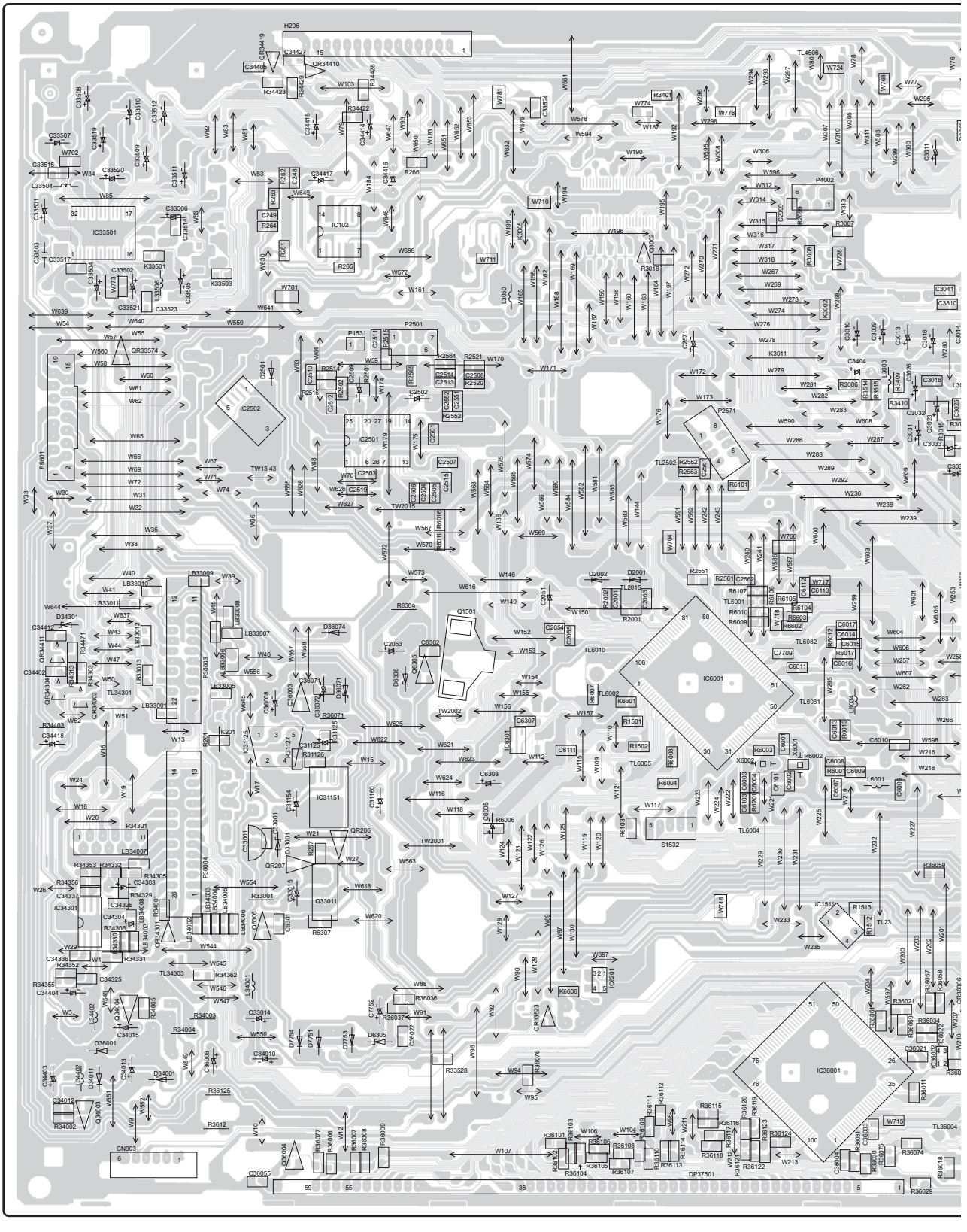


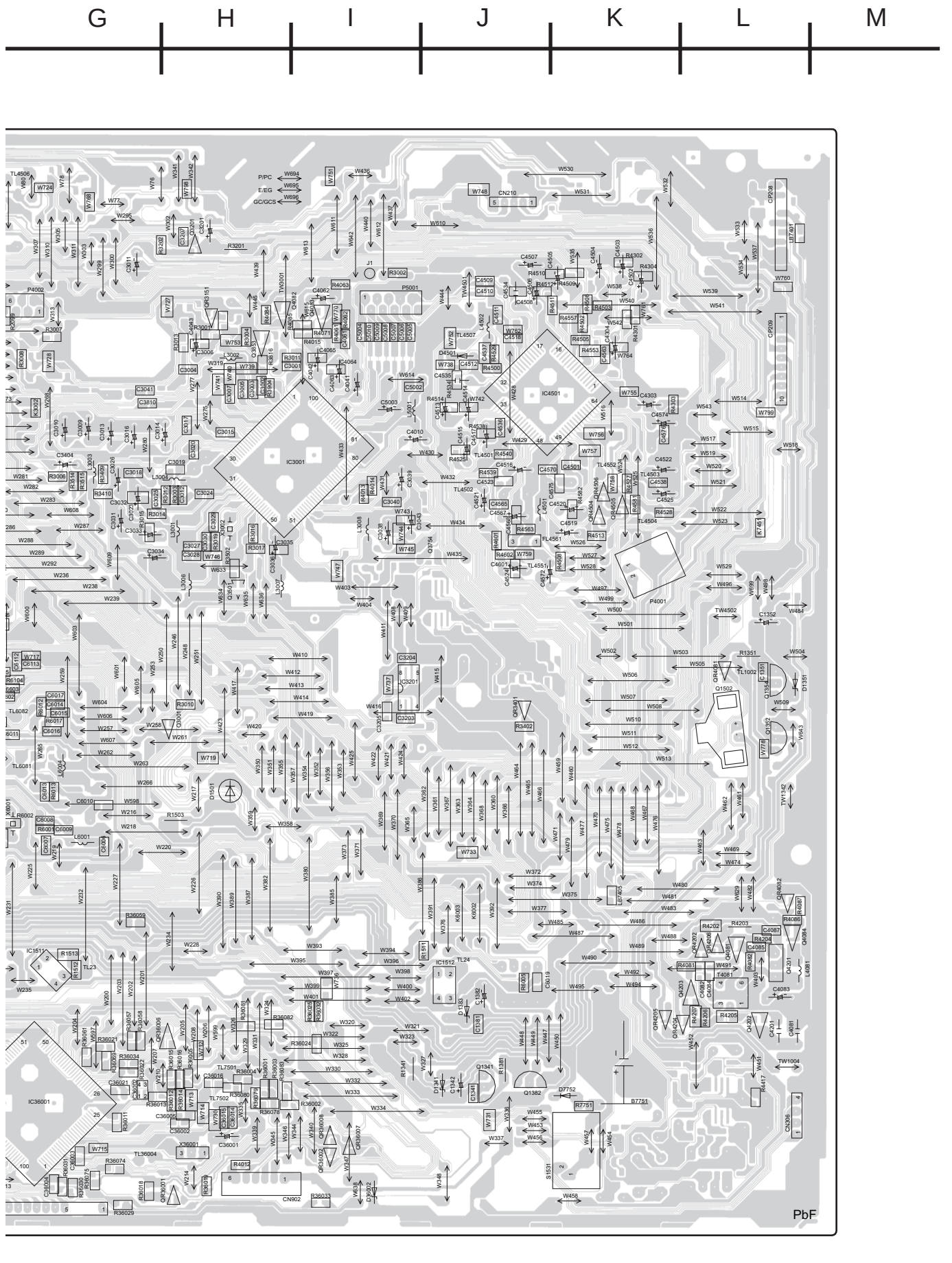
FLE0306D/K/J/N/L

A B C D E F G

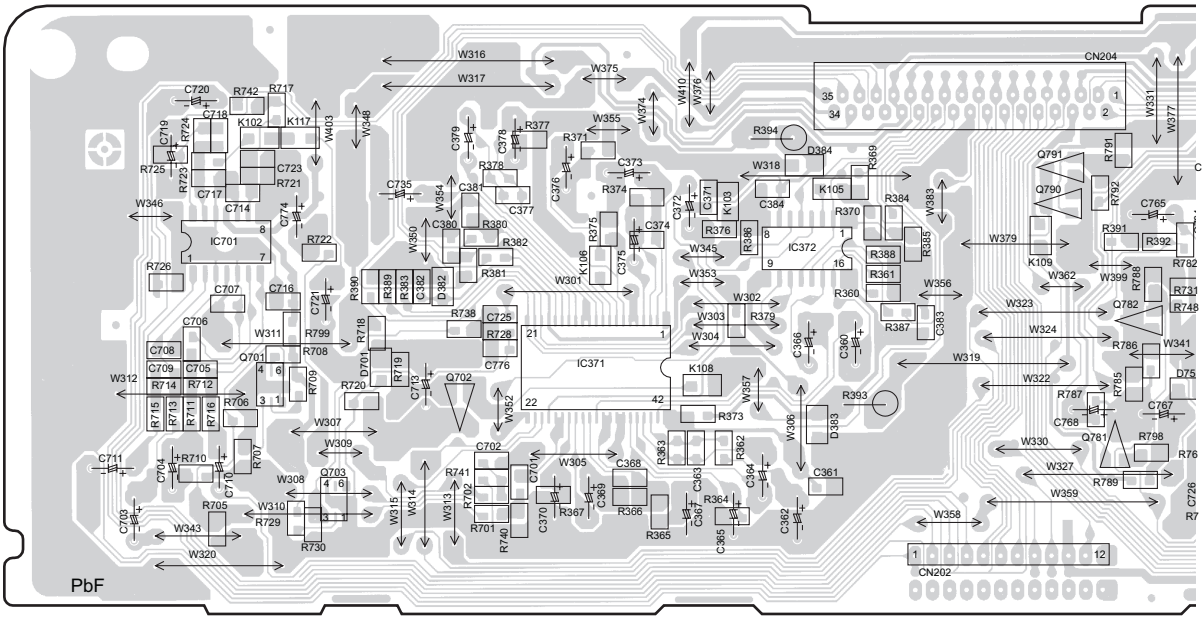
1 2 3 4 5 6 7 8 9

C MAIN P.C.B (VEP06F25A-1)



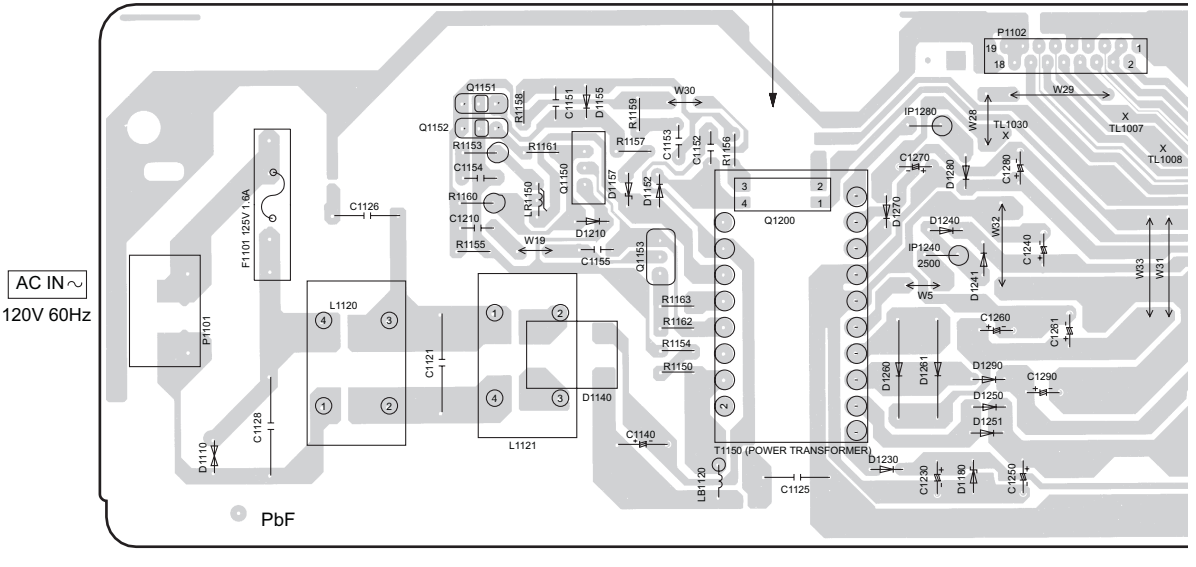

G
H
I
J
K
L
M
PbF

E REGULATOR P.C.B (VEP7A58A)

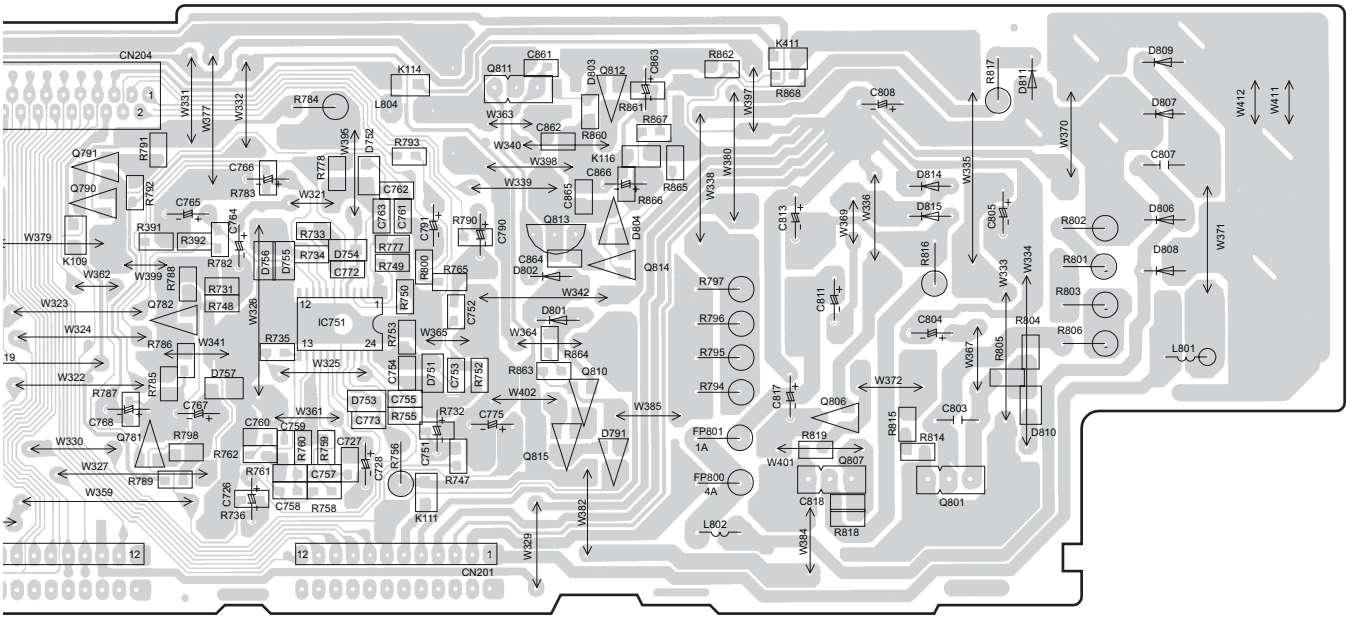


F POWER P.C.B (VEP01930A)

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B



G H I J K L M


CN204
IC751
CN201
L804
L801
L802
K114
K109
K111
K411
K116
Q811
Q812
Q813
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Q791
Q782
Q781
Q815
Q810
Q806
Q807
Q801
D801
D802
D804
D807
D808
D809
D810
D811
D814
D815
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D752
D753
D754
D755
D756
D757
D791
C861
C862
C863
C864
C865
C866
C808
C807
C806
C805
C804
C803
C811
C813
C817
C818
R862
R868
R867
R861
R860
R865
R866
R784
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R793
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R749
R800
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R773
R732
R775
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R751
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R759
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R762
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R796
R795
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R816
R815
R814
R802
R801
R803
R804
R806
FP801
1A
FP800
4A
W379
W362
W399
W323
W324
W322
W787
W330
W327
W789
W359
W736
W326
W321
W339
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W342
W365
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W402
W385
W882
W329
W397
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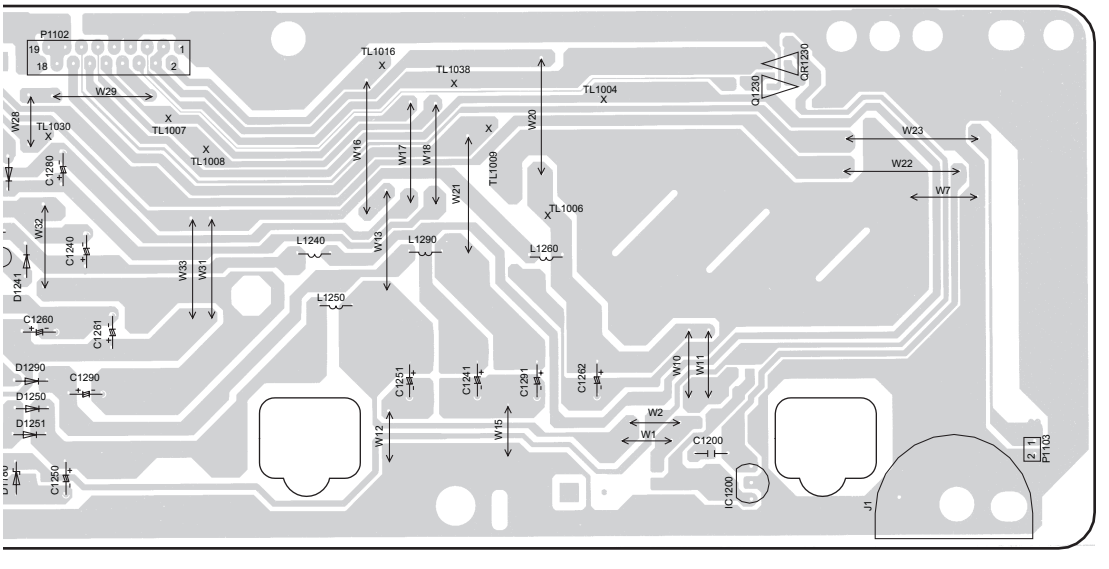
W333
W334
W371
W412
W411
W401
W384


P1102
P1103
J1
IC1200
L1240
L1290
L1260
L1250
TL1016
TL1038
TL1004
TL1030
TL1007
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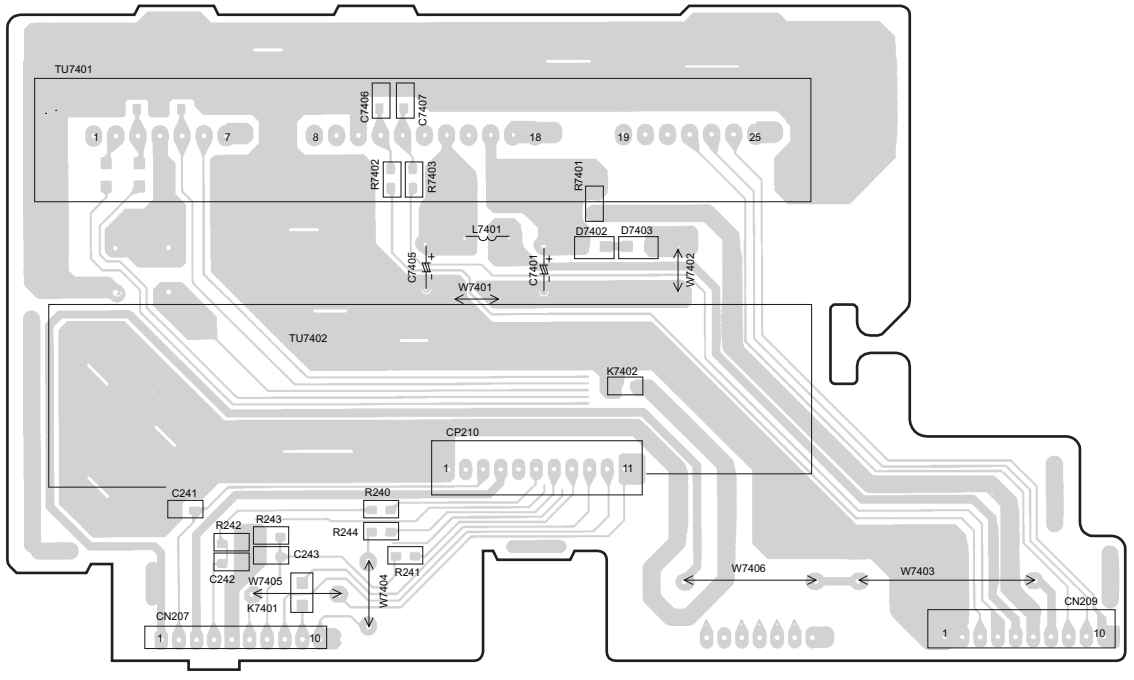
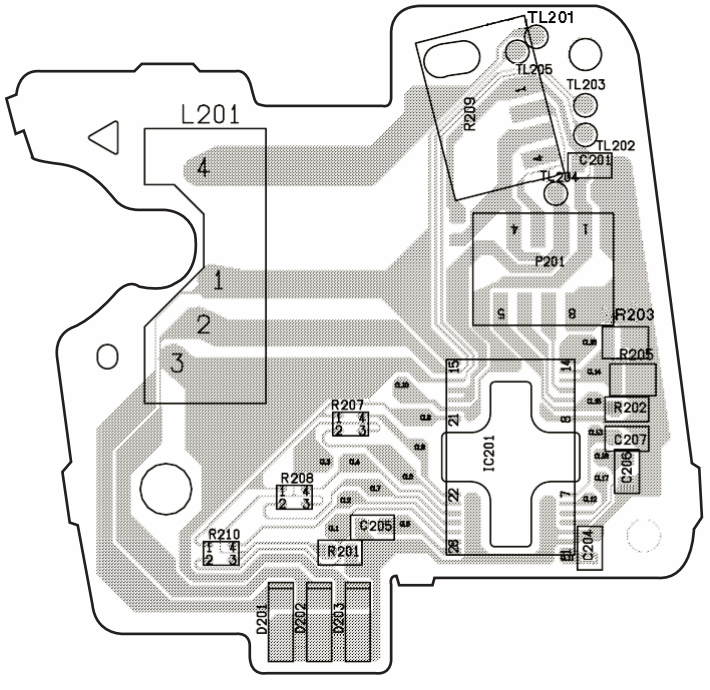
TL1009
TL1006
CR1230
Q1230
C1280
C1240
C1260
C1261
C1290
C1250
C1251
C1241
C1231
C1262
C1200
D1290
D1250
D1251
D1241
W29
W28
W32
W33
W31
W16
W17
W18
W21
W20
W13
W12
W15
W10
W11
W1
W2
W22
W23
W7

J TUNER P.C.B (VEP7A59A)



K VCR DECK P.C.B (VEP02578A)



SCHEMATIC DIAGRAM-1

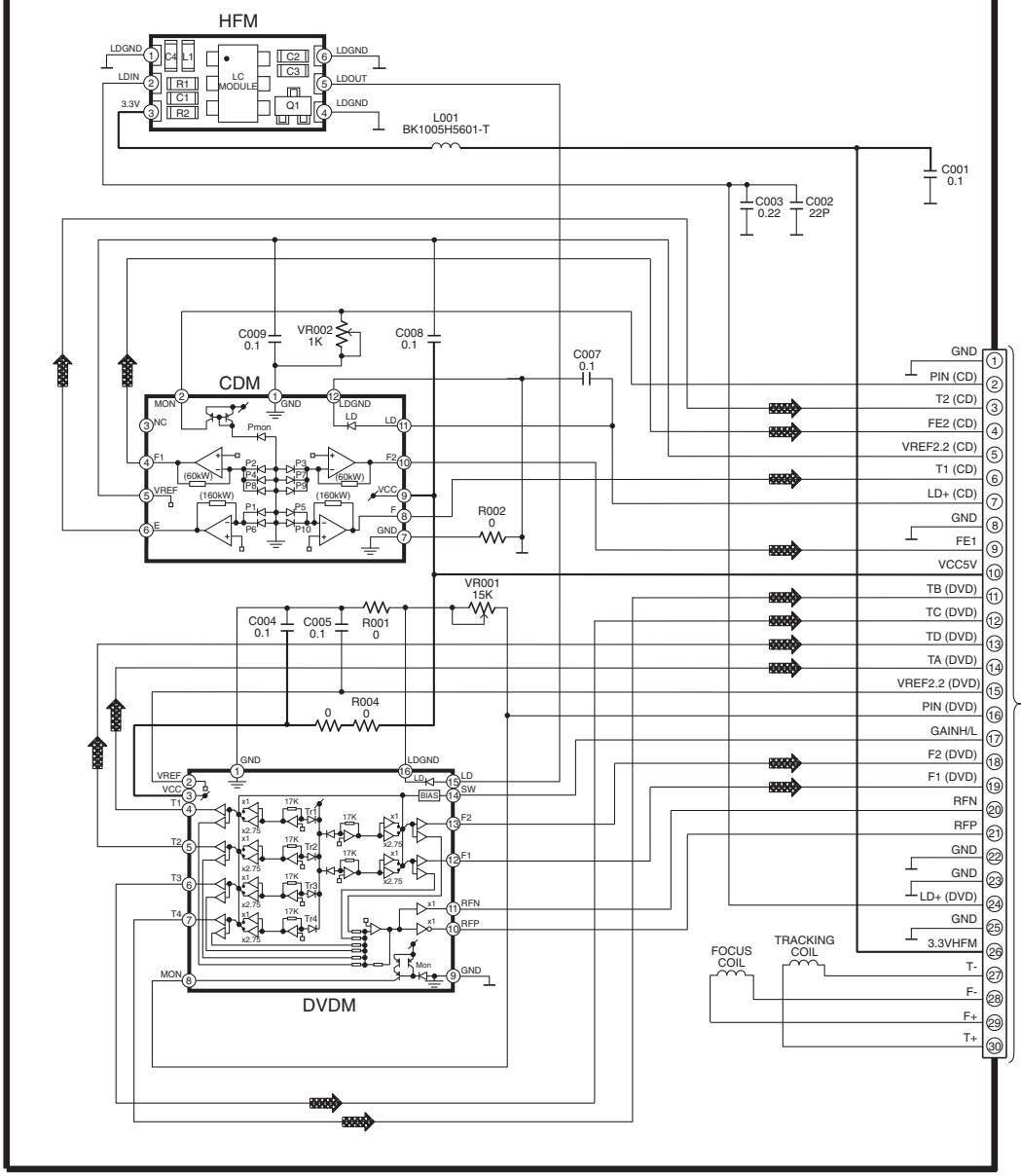
A Side A Side B

DVD MODULE (1) CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE

OPTICAL PICK-UP UNIT

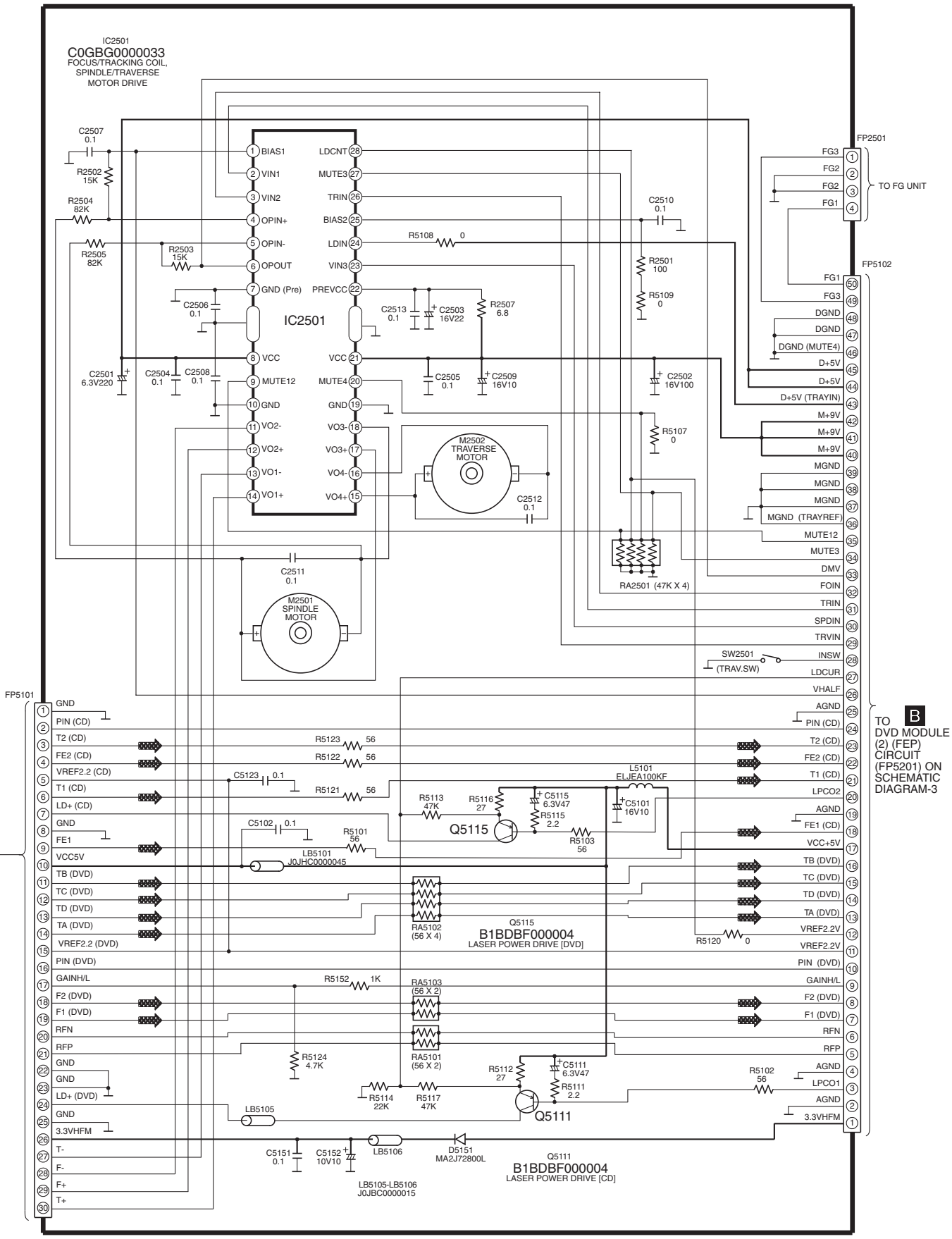


SCHEMATIC DIAGRAM-2

A DVD MODULE (1) CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE

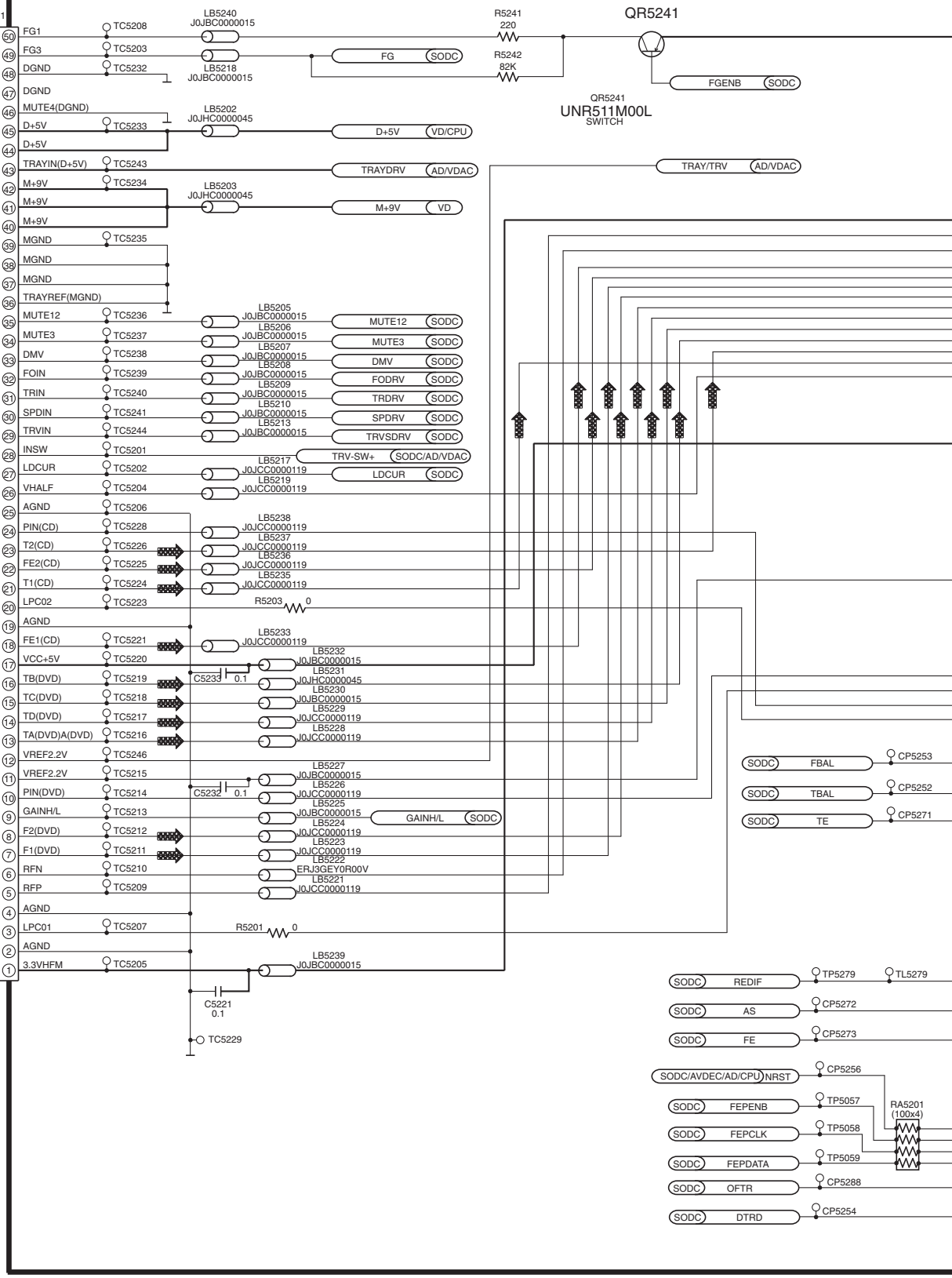


SCHEMATIC DIAGRAM-3

Side A | Side B

B DVD MODULE (2) (FEP) CIRCUIT

: +B SIGNAL LINE
: CD-DA SIGNAL LINE

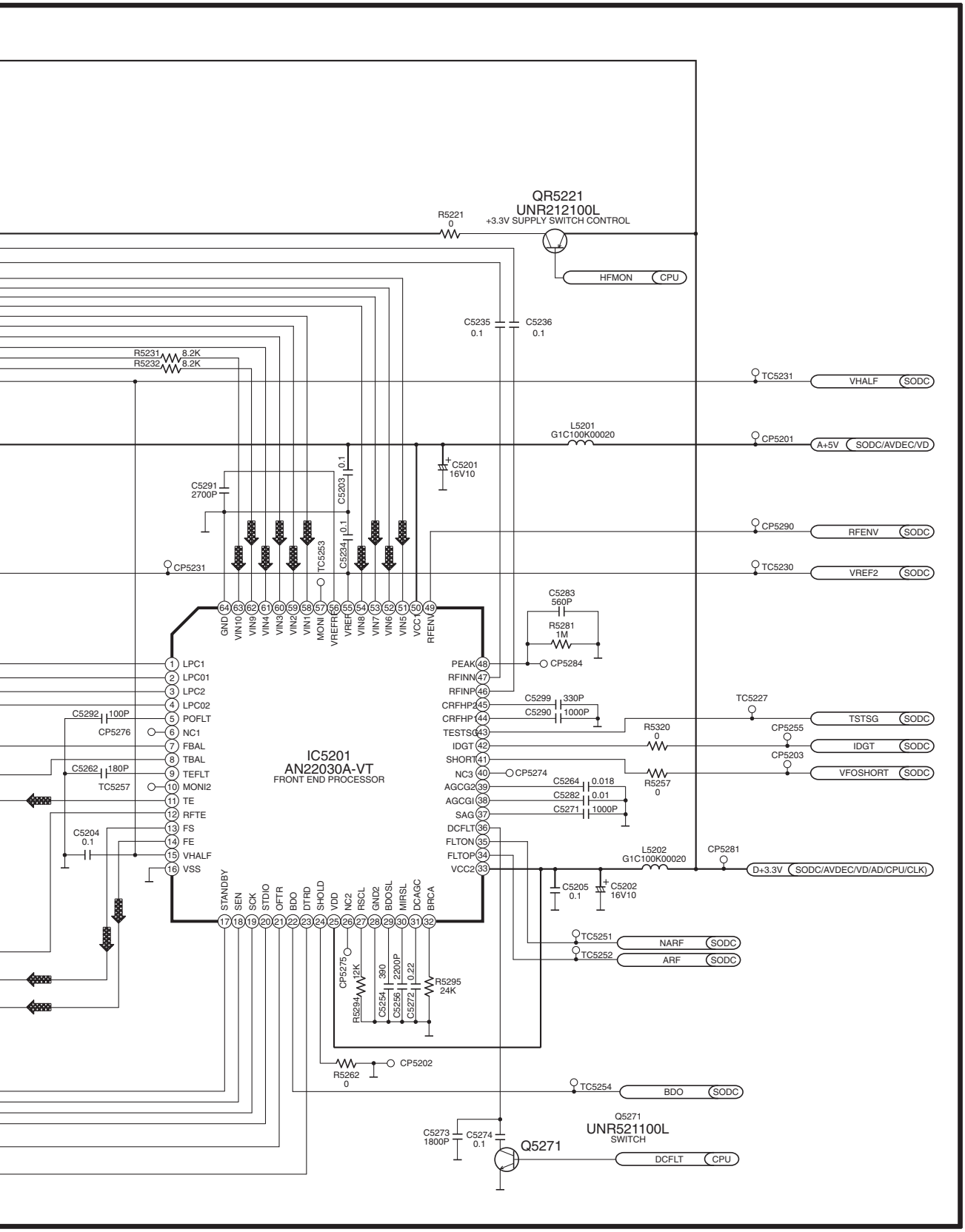


SCHEMATIC DIAGRAM-4

B DVD MODULE (2) (FEP) CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE

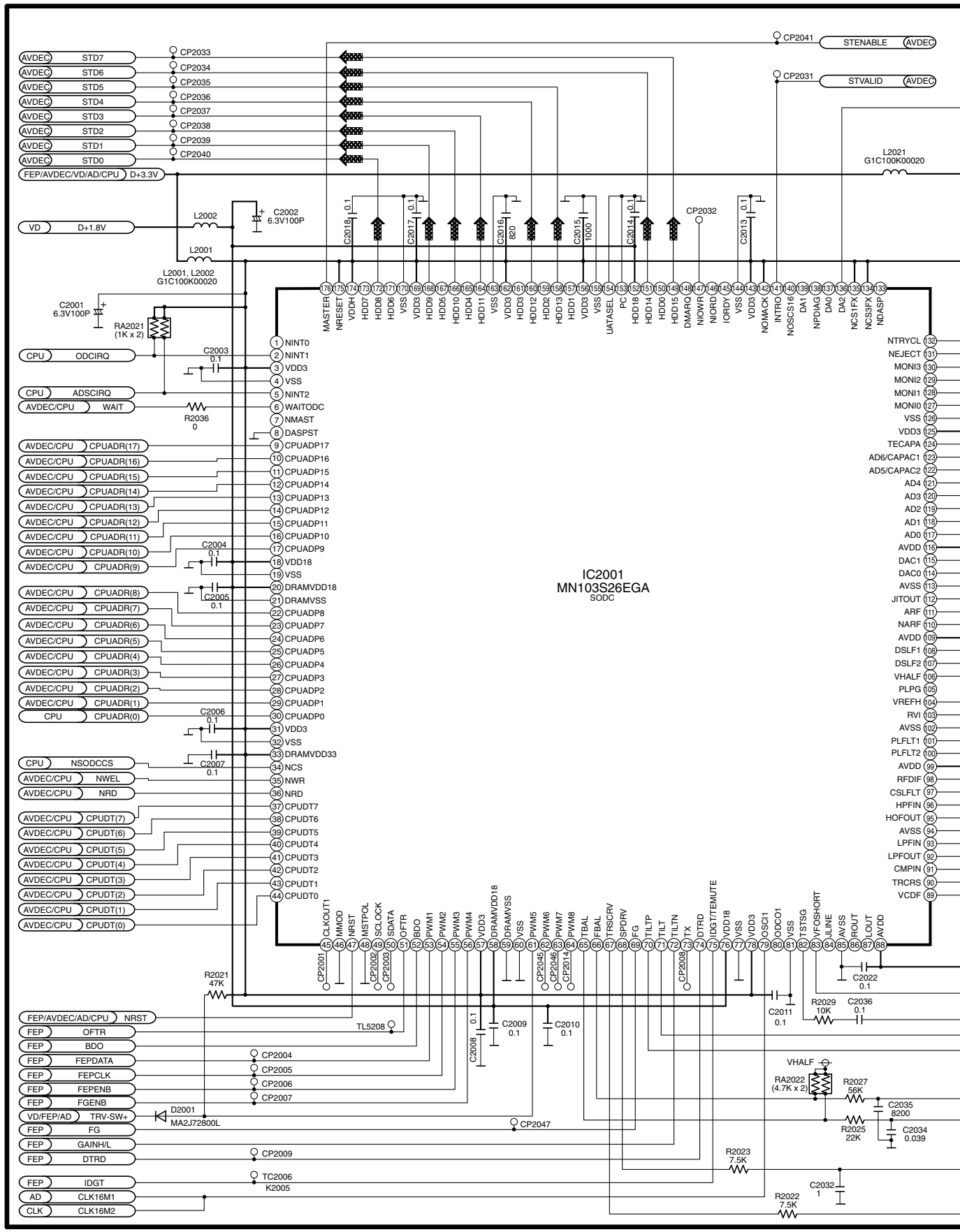


SCHEMATIC DIAGRAM-5

B DVD MODULE (2) (SODC) CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE

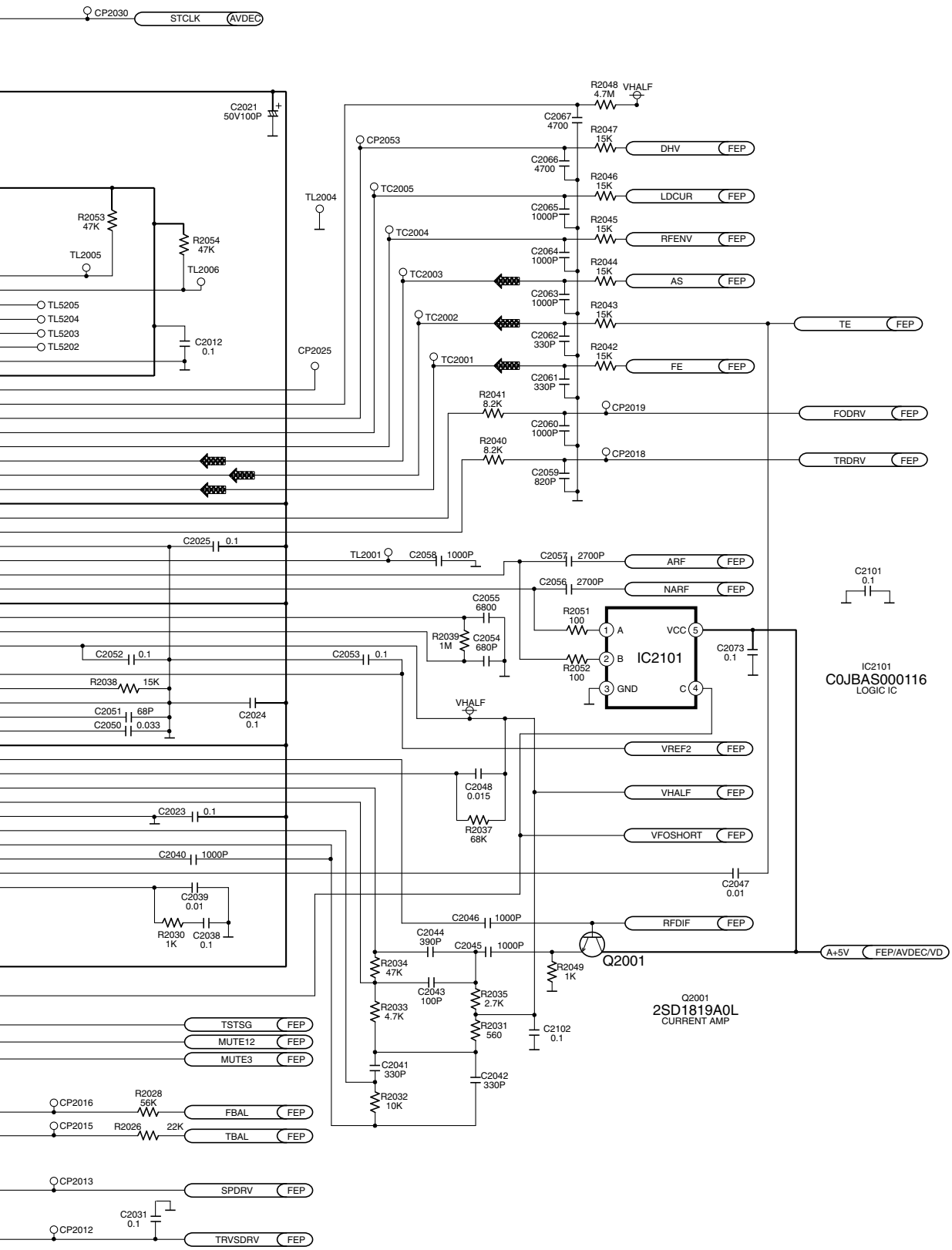


SCHEMATIC DIAGRAM-6

B DVD MODULE (2) (SODC) CIRCUIT

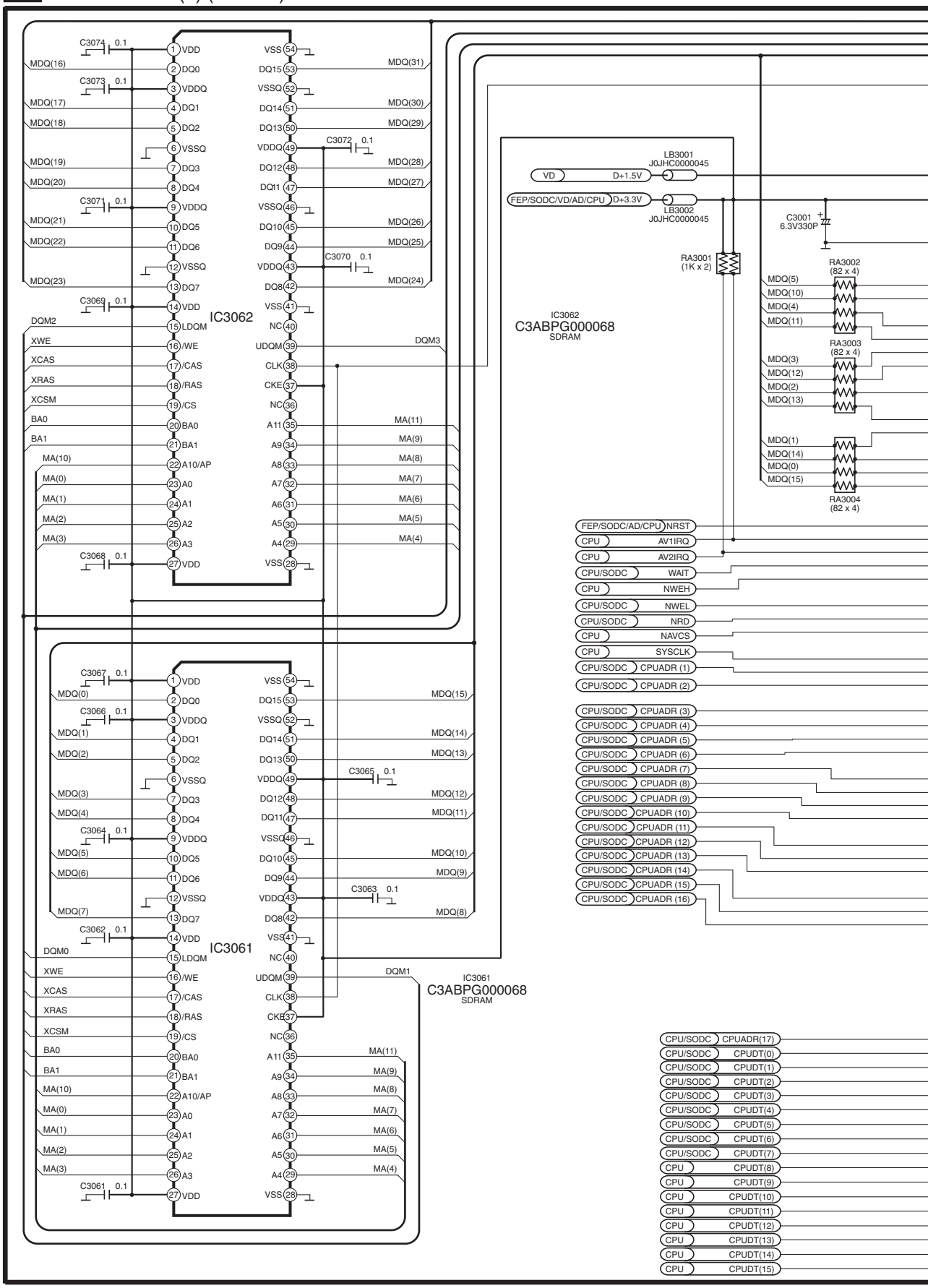
: +B SIGNAL LINE

: CD-DA SIGNAL LINE



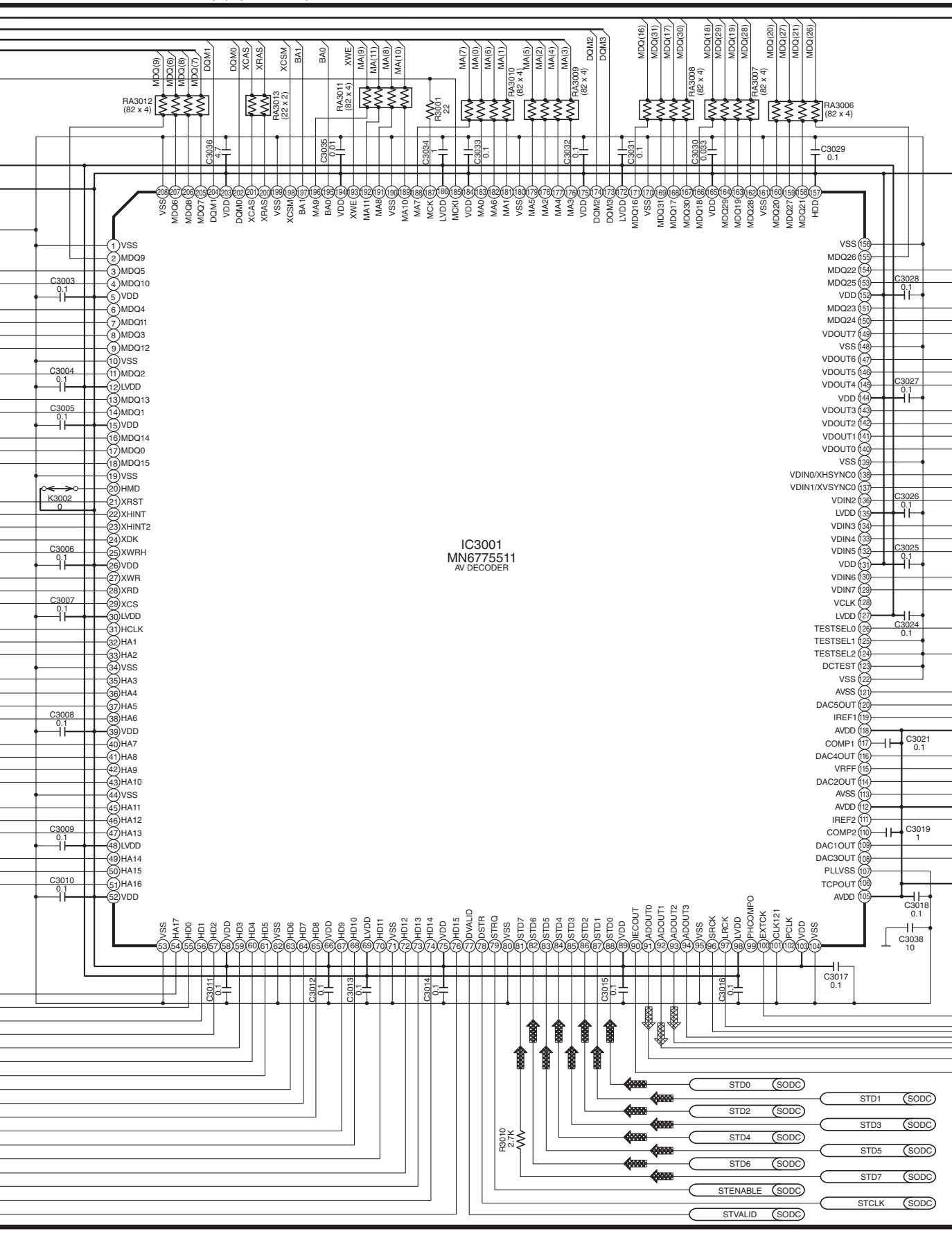
B DVD MODULE (2) (AVDEC) CIRCUIT

——— : +B SIGNAL LINE



B DVD MODULE (2) (AVDEC) CIRCUIT

: CD-DA SIGNAL LINE
: DVD AUDIO SIGNAL
: +B SIGNAL LINE



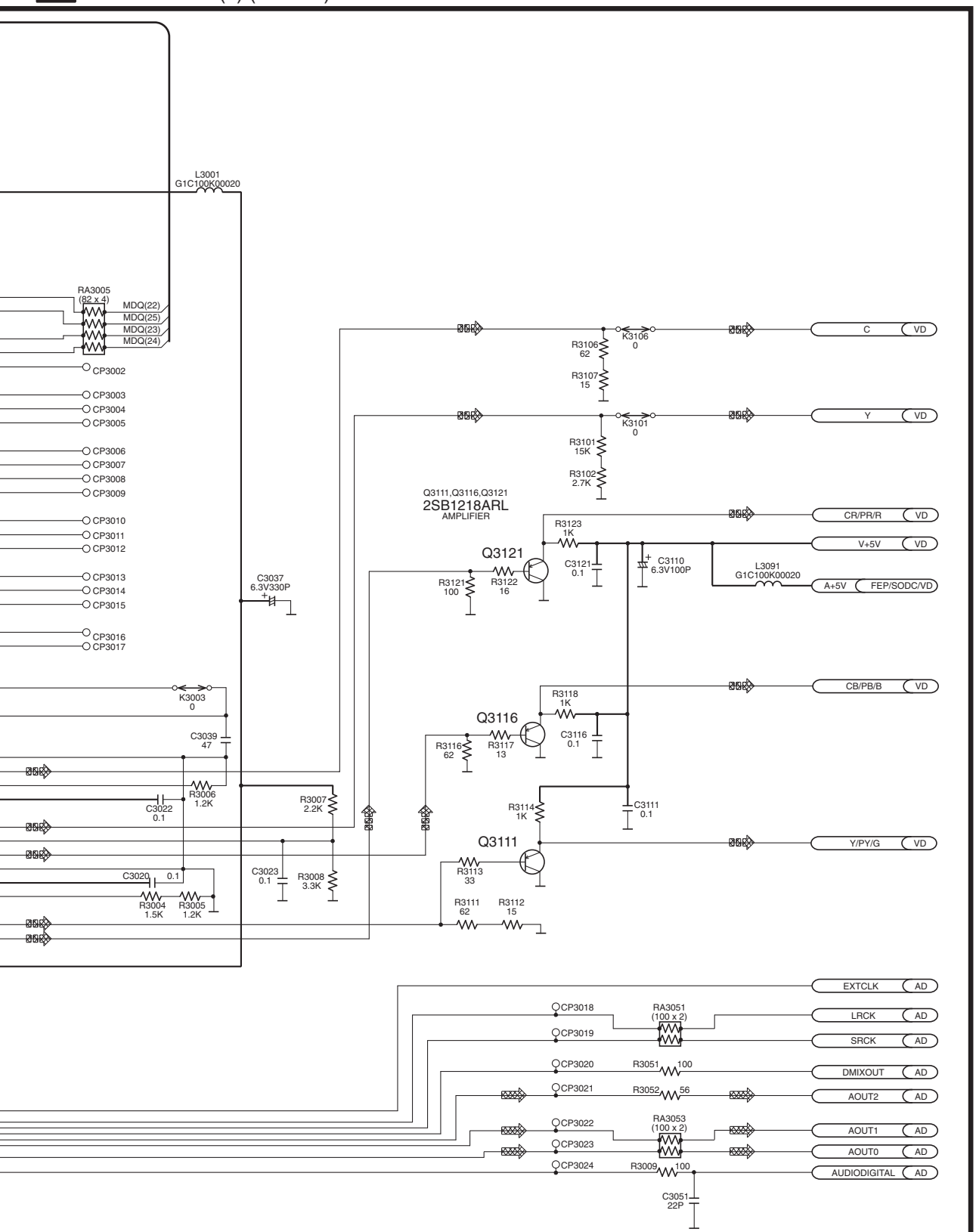
SCHEMATIC DIAGRAM-9

B DVD MODULE (2) (AVDEC) CIRCUIT

: +B SIGNAL LINE

: DVD VIDEO SIGNAL

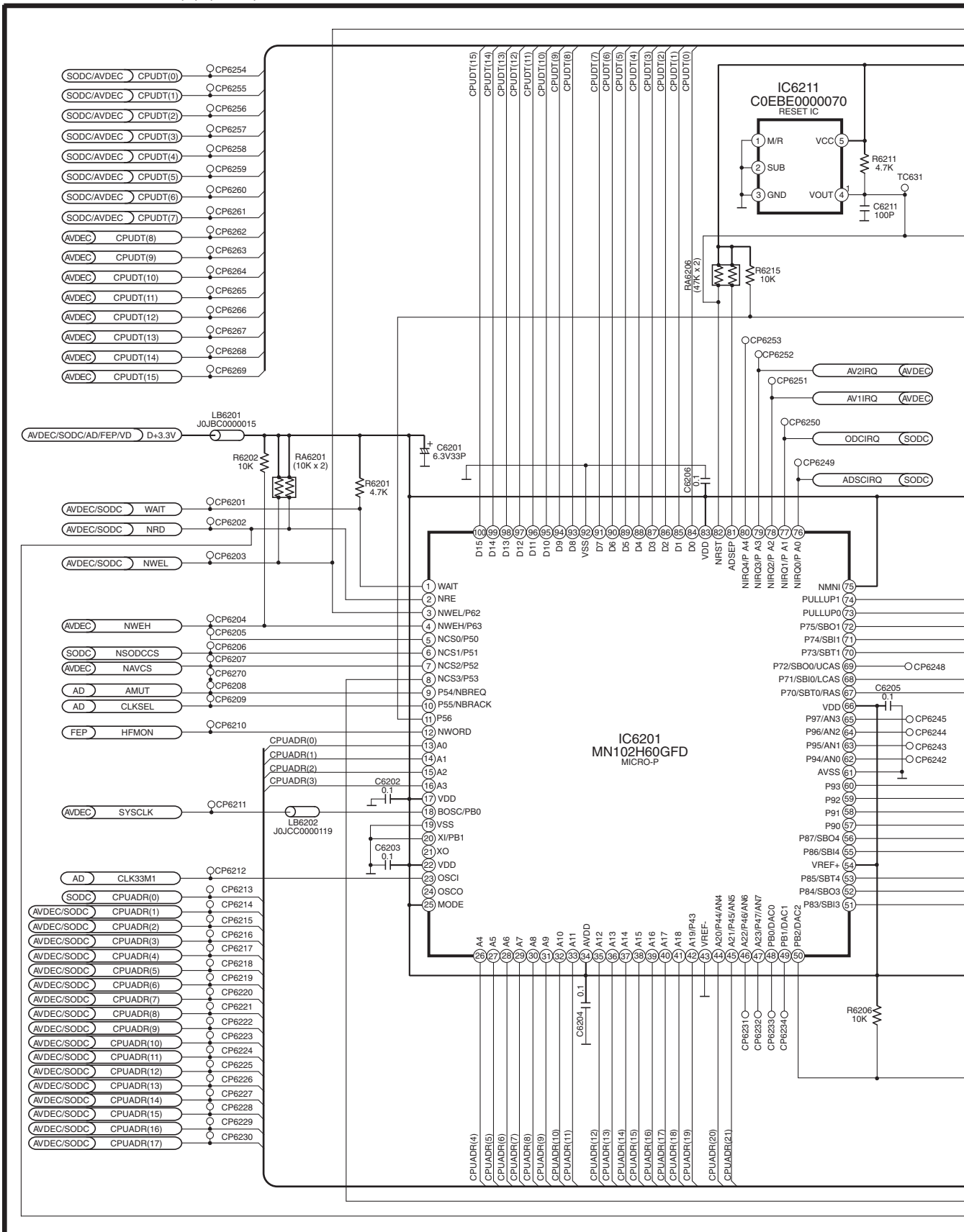
: DVD AUDIO SIGNAL



SCHEMATIC DIAGRAM-10

B DVD MODULE (2) (CPU) CIRCUIT

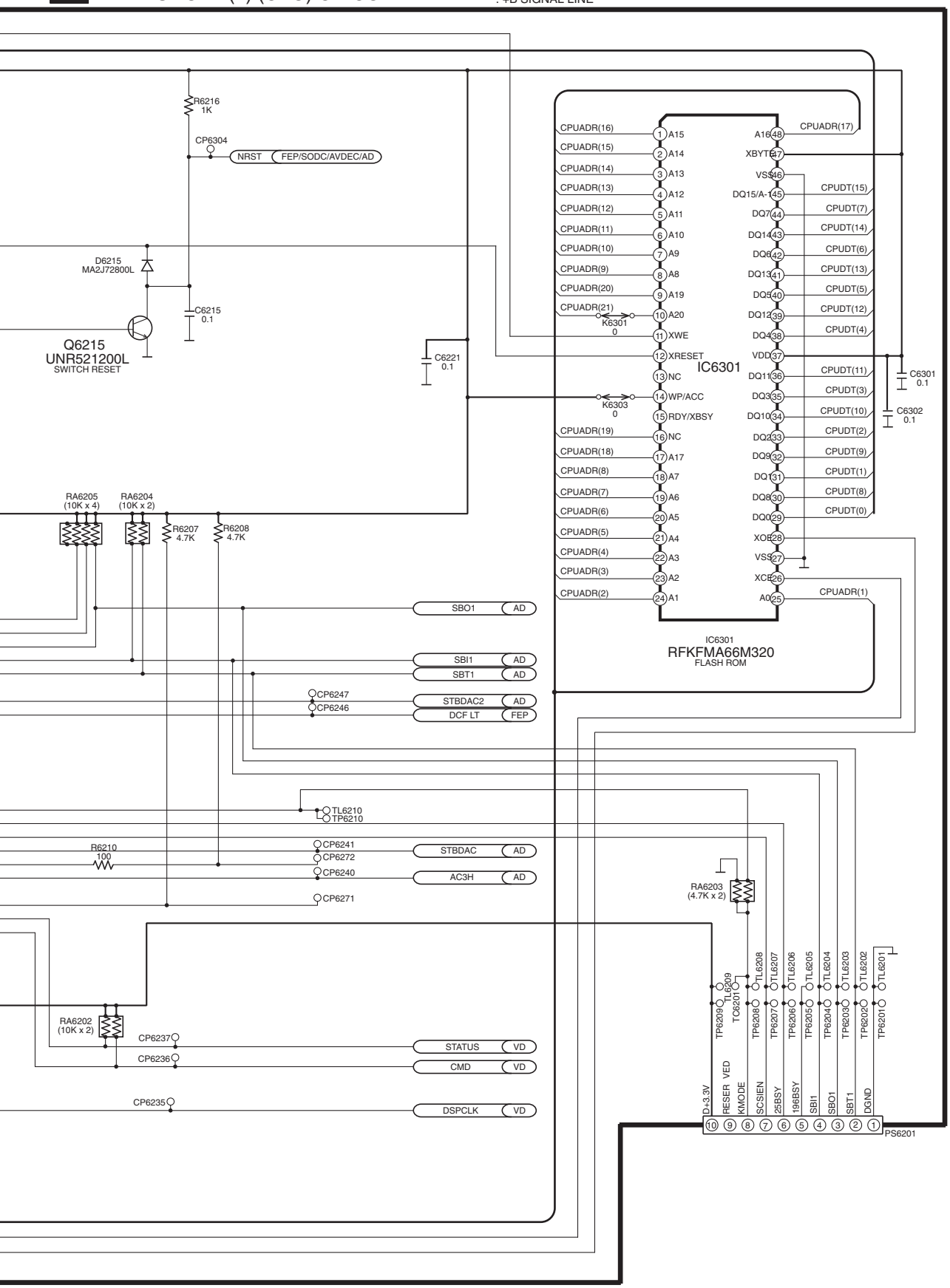
——— : +B SIGNAL LINE



SCHEMATIC DIAGRAM-11

B DVD MODULE (2) (CPU) CIRCUIT

——— : +B SIGNAL LINE



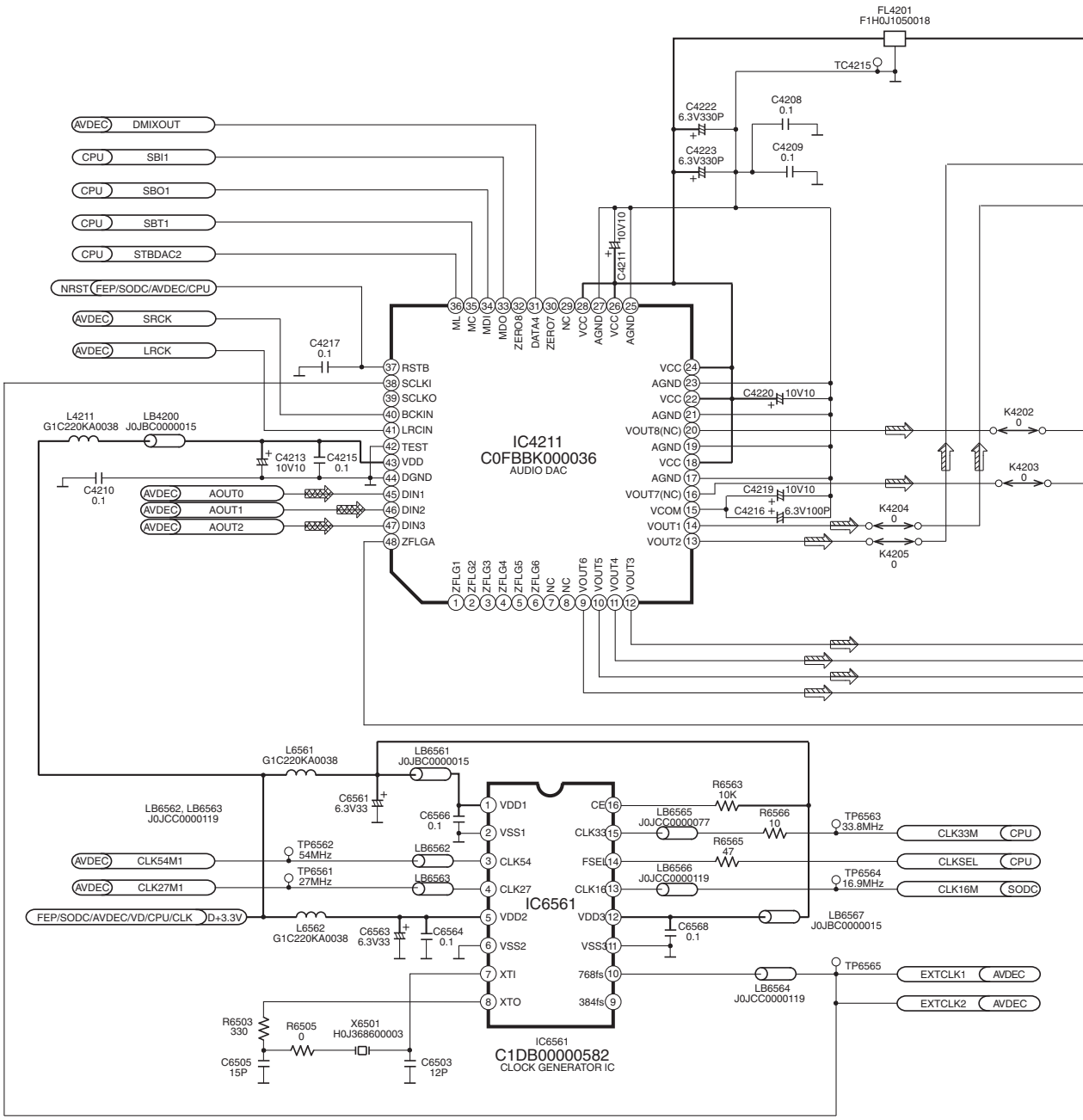
SCHEMATIC DIAGRAM-12

B DVD MODULE(2) (AUDIO DAC) CIRCUIT

: +B SIGNAL LINE

: MAIN SIGNAL LINE

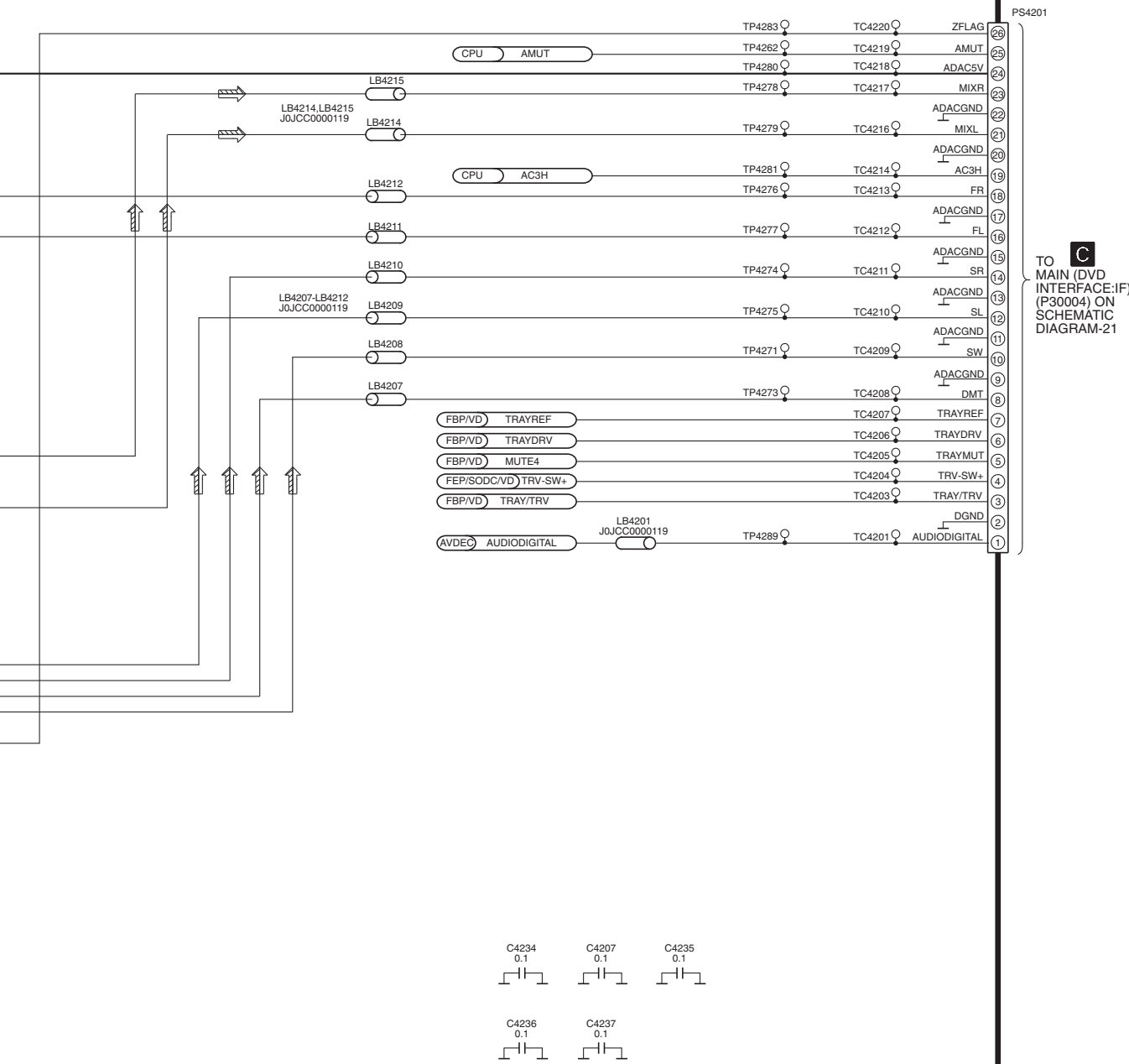
: DVD AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM-13

B DVD MODULE(2) (AUDIO DAC) CIRCUIT

: +B SIGNAL LINE
: MAIN SIGNAL LINE

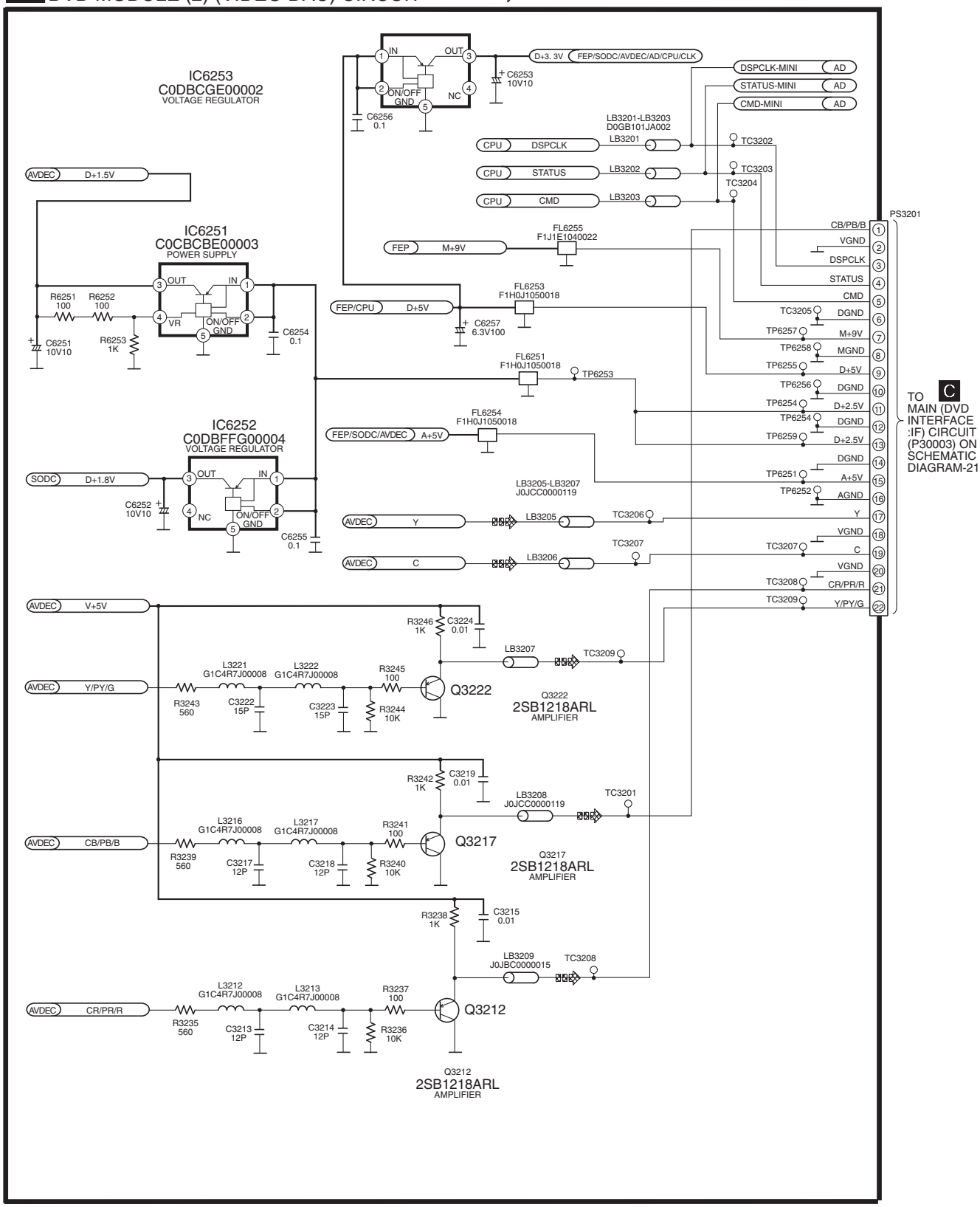


SCHEMATIC DIAGRAM-14

B DVD MODULE (2) (VIDEO DAC) CIRCUIT

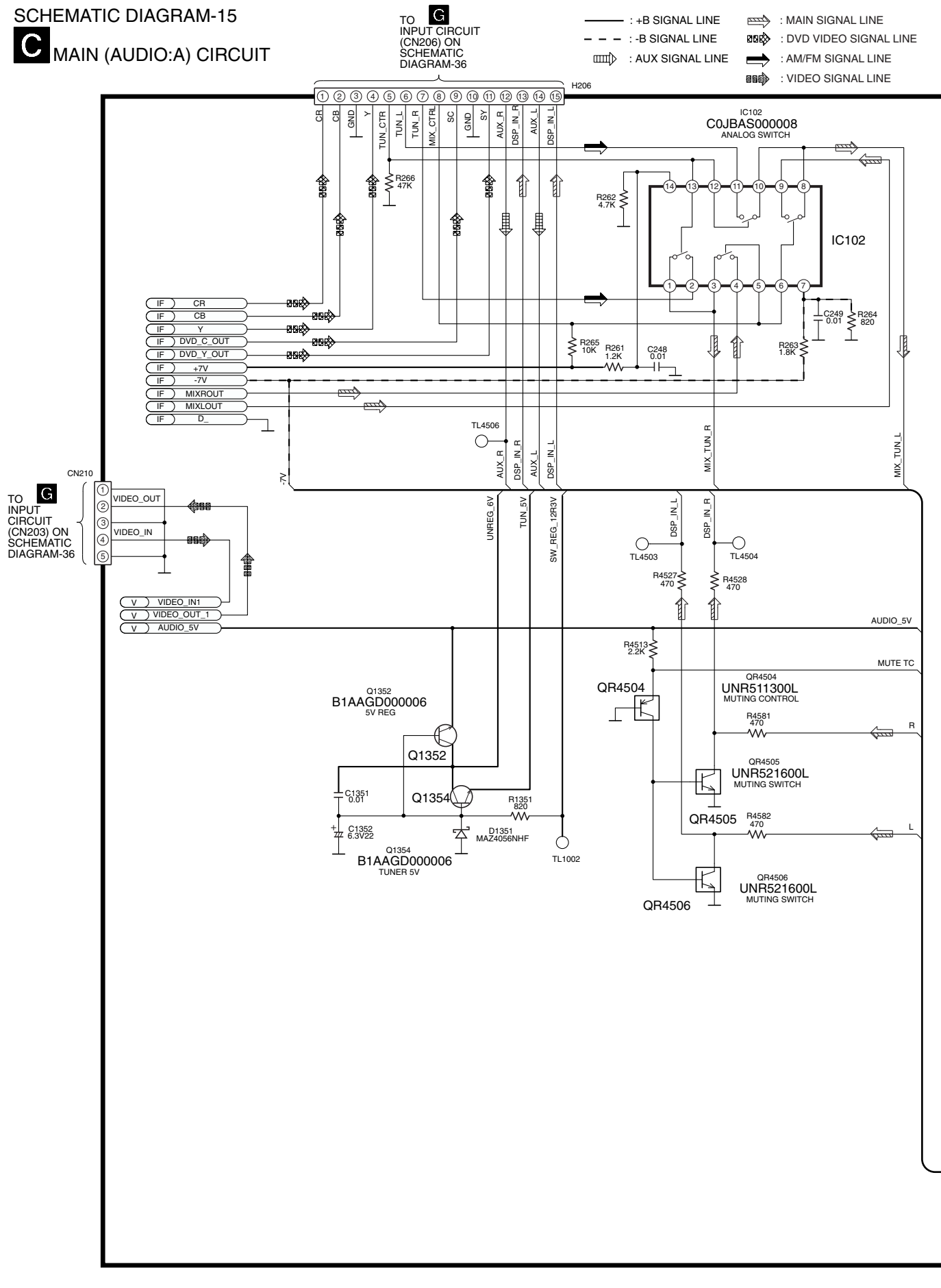
: +B SIGNAL LINE

: DVD VIDEO SIGNAL LINE



SCHEMATIC DIAGRAM-15

C MAIN (AUDIO:A) CIRCUIT

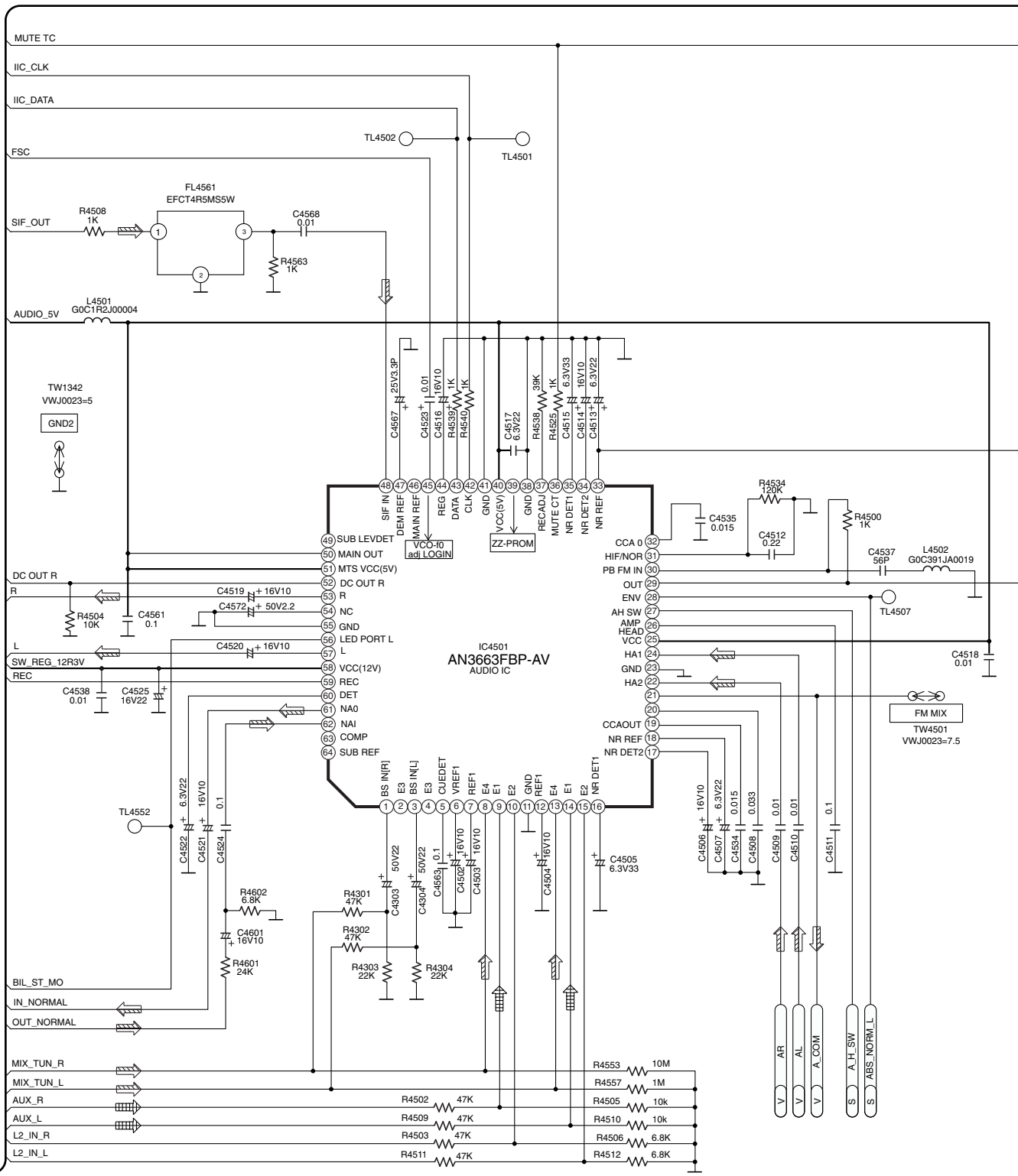


SCHEMATIC DIAGRAM-16

C MAIN (AUDIO:A) CIRCUIT

: +B SIGNAL LINE

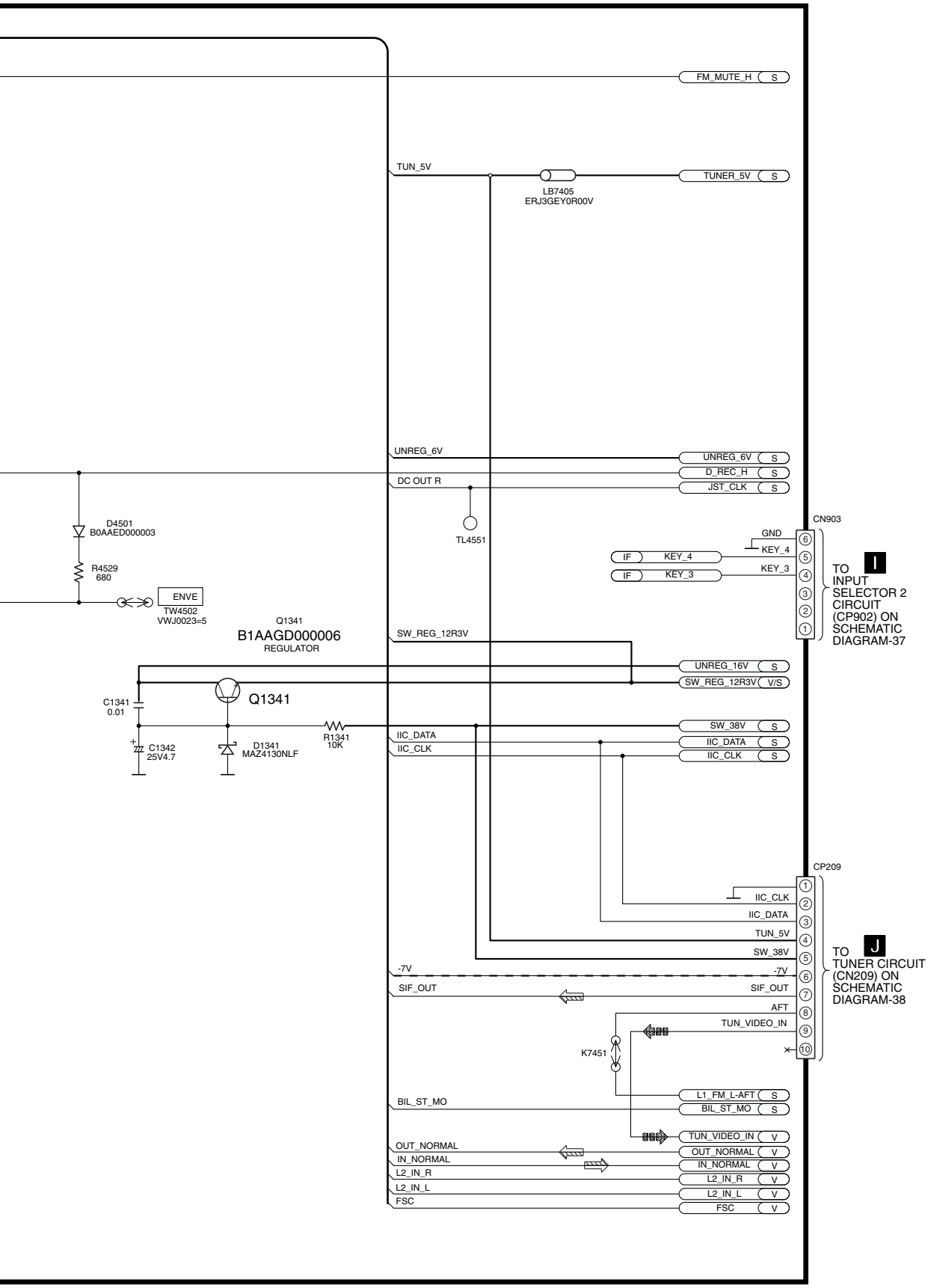
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-17

C MAIN (AUDIO:A) CIRCUIT

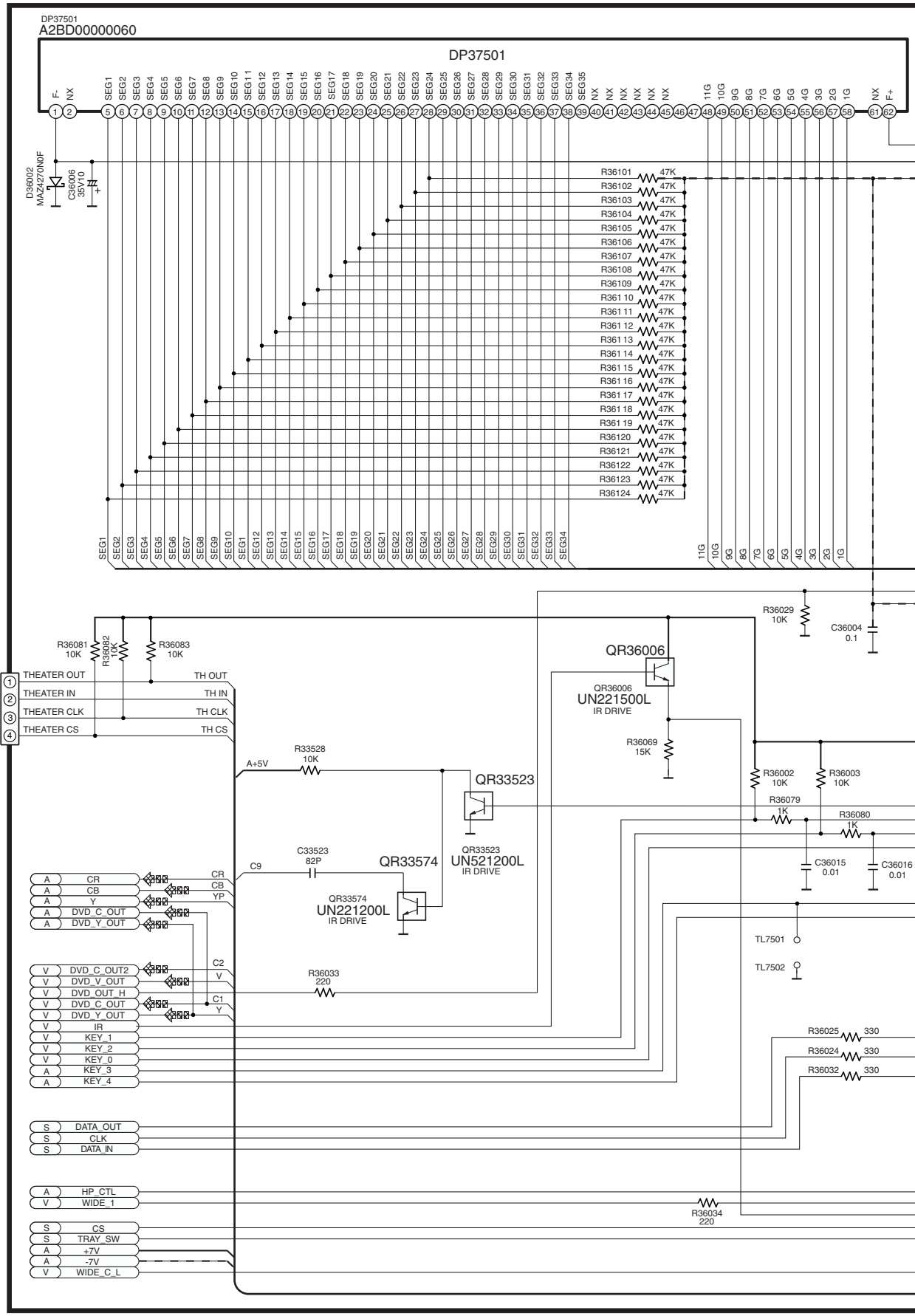
——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE
⇨ : VIDEO SIGNAL LINE



SCHEMATIC DIAGRAM-18

C MAIN (DVD INTERFACE:IF) CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: DVD VIDEO SIGNAL LINE

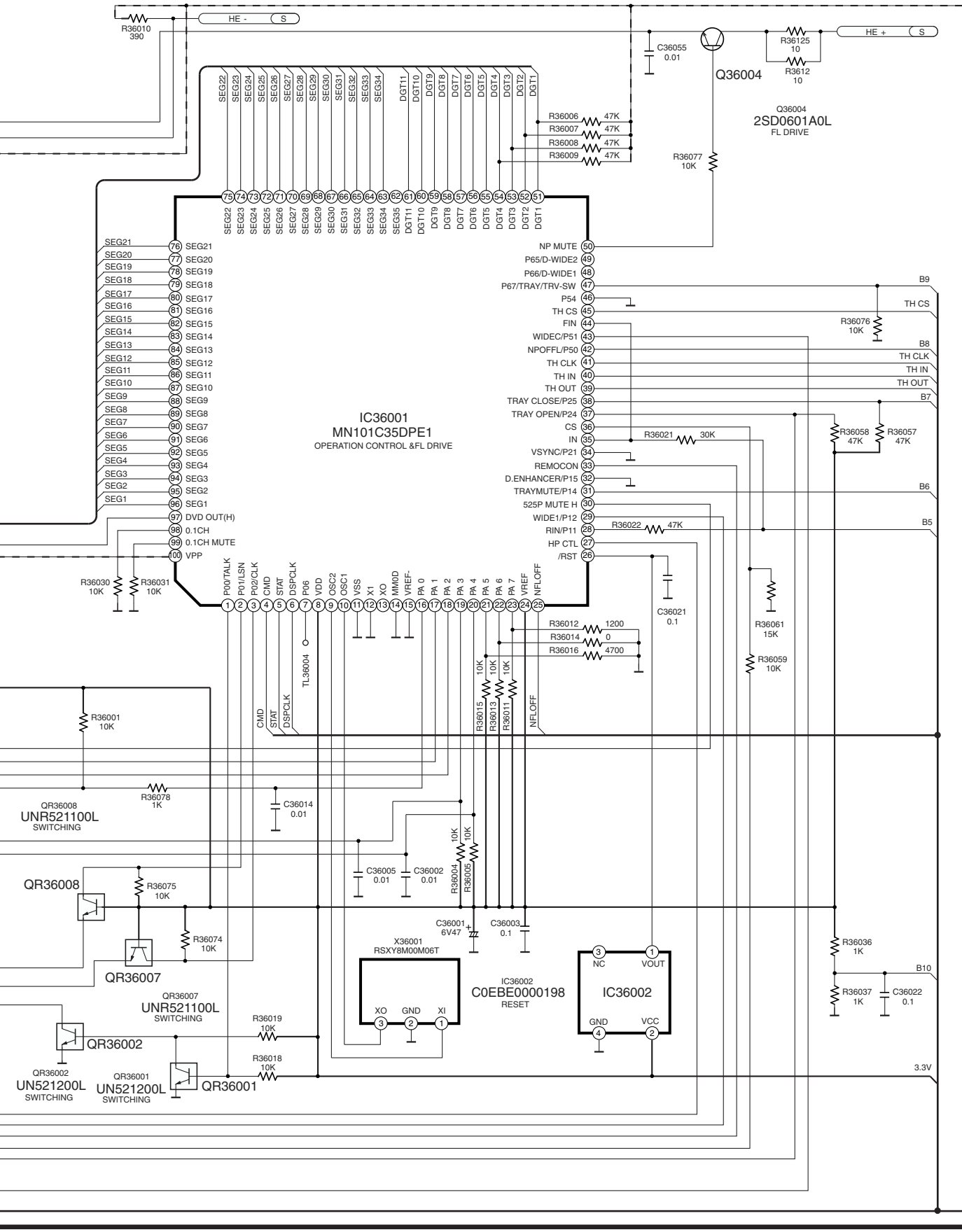


SCHEMATIC DIAGRAM-19

C MAIN (DVD INTERFACE:IF) CIRCUIT

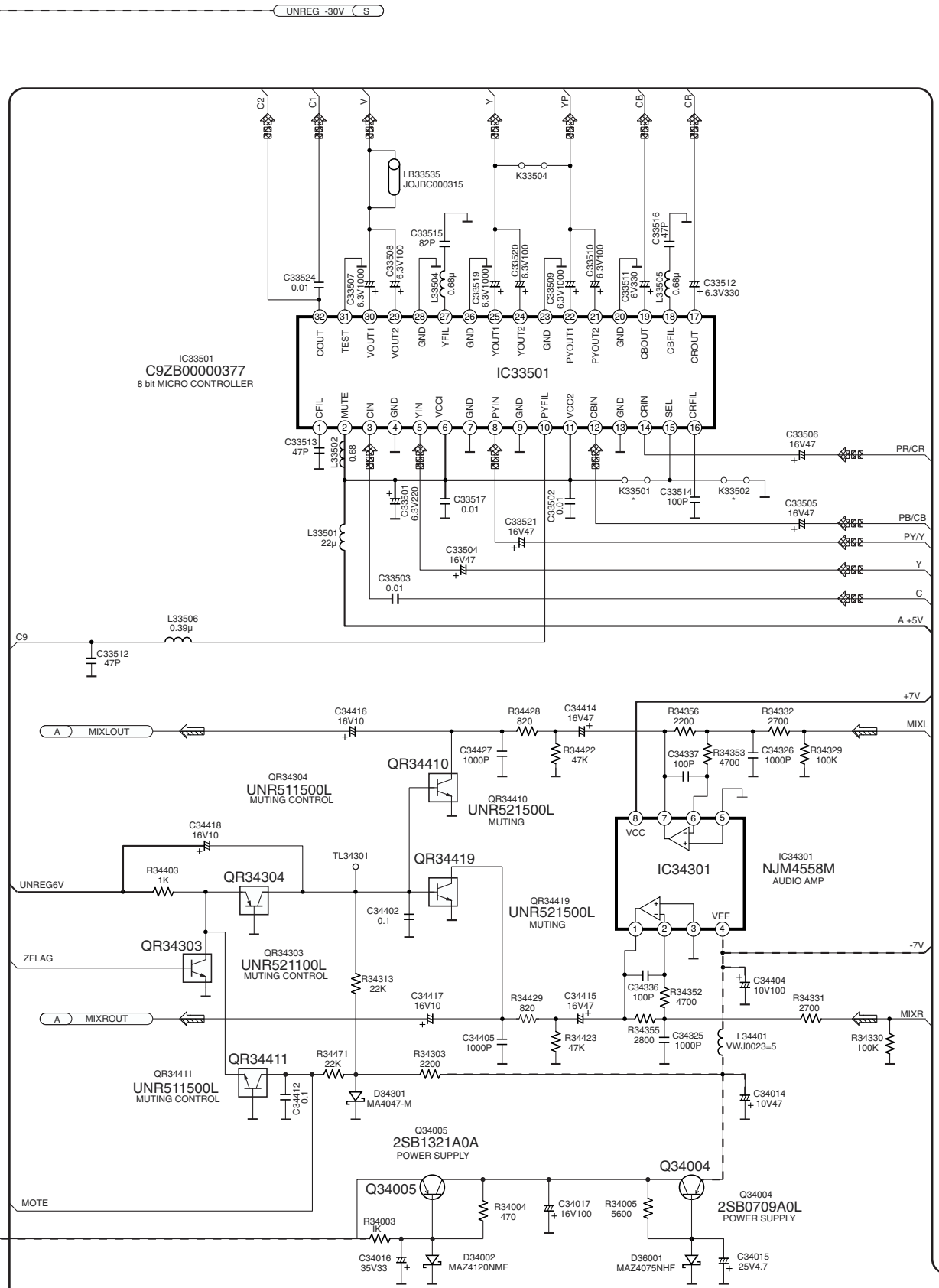
——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE



C MAIN (DVD INTERFACE:IF) CIRCUIT

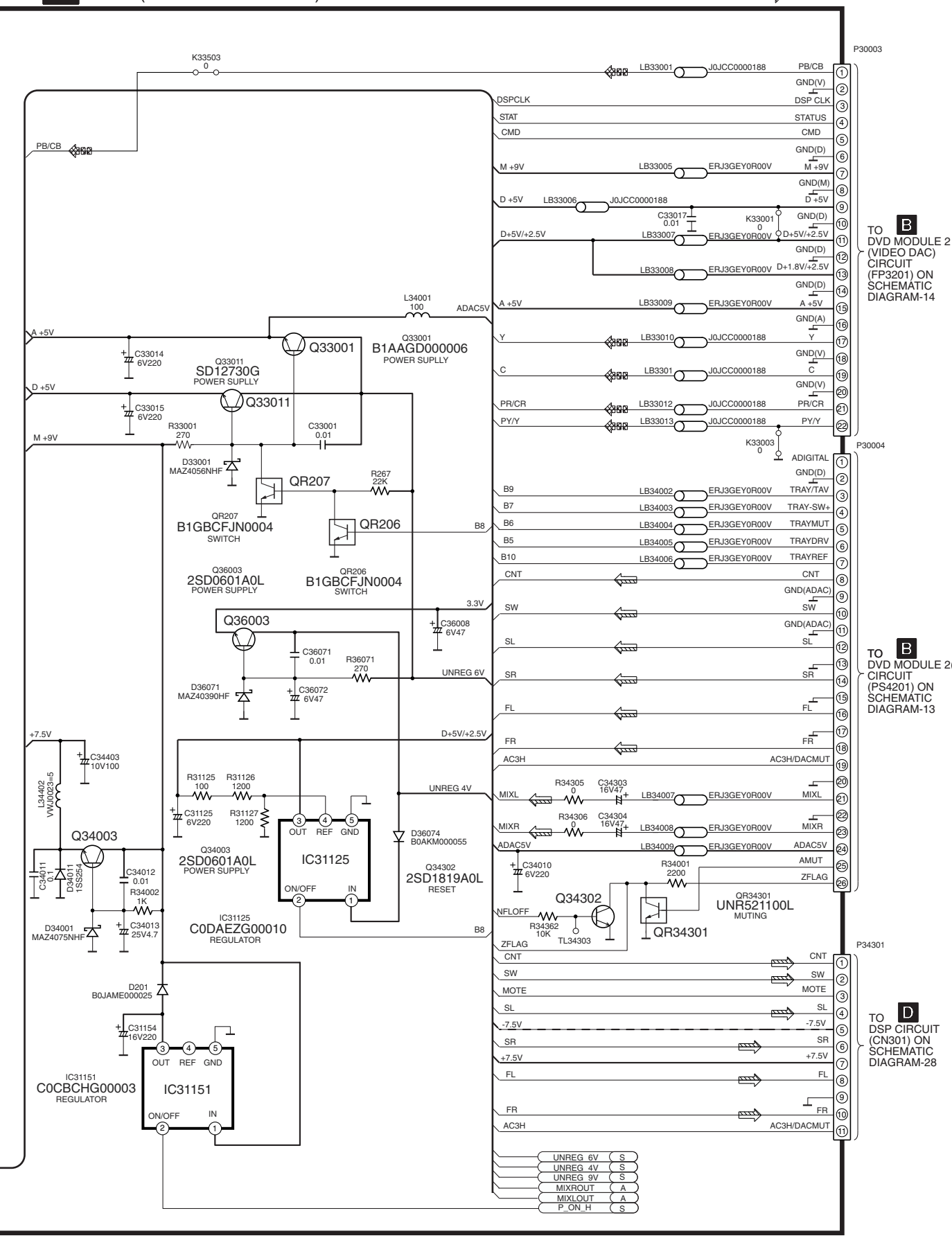
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: DVD VIDEO SIGNAL LINE



SCHEMATIC DIAGRAM-21

C MAIN (DVD INTERFACE:IF) CIRCUIT

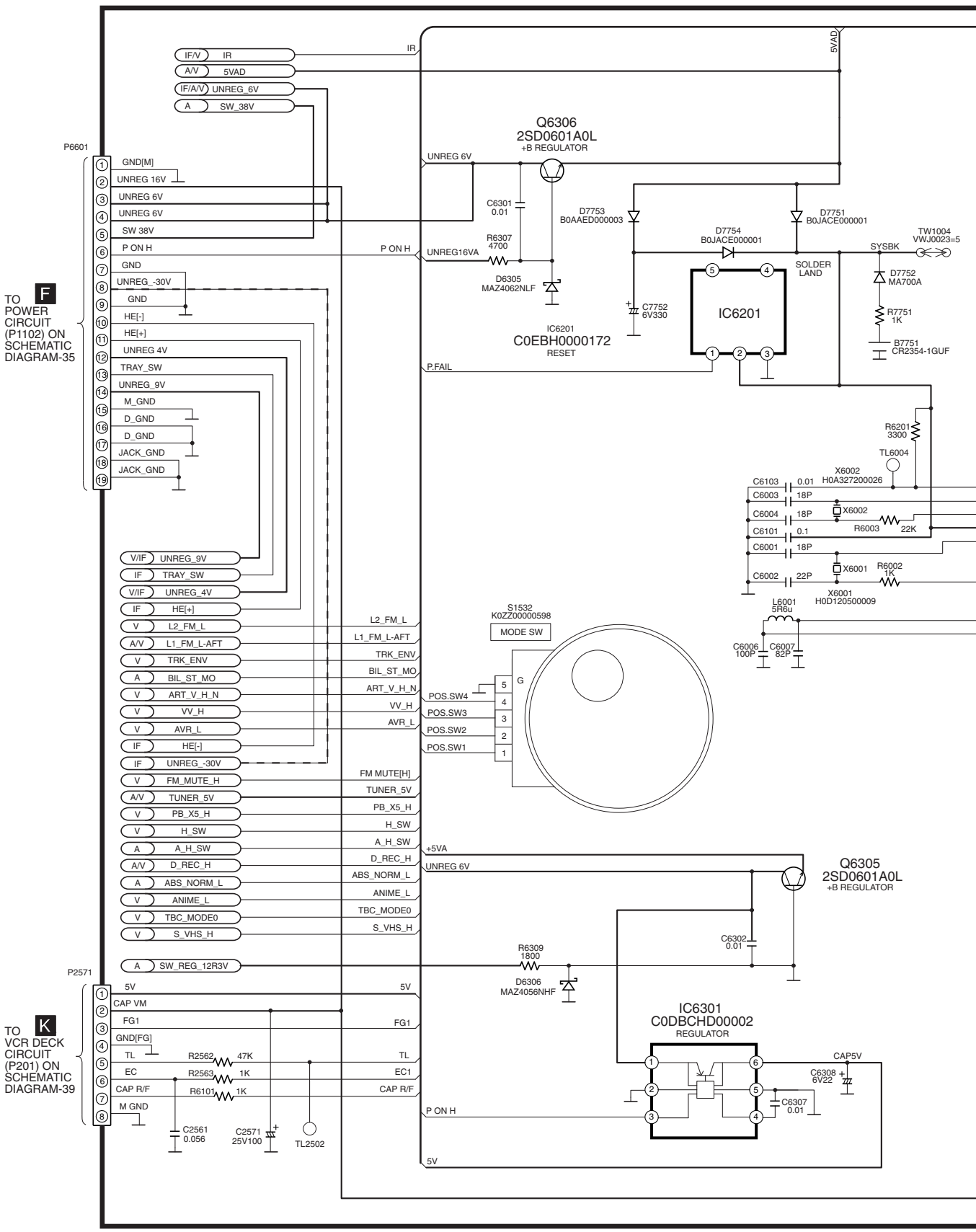
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: DVD VIDEO SIGNAL LINE



SCHEMATIC DIAGRAM-22

C MAIN (SYSTEM CONTROL:S) CIRCUIT

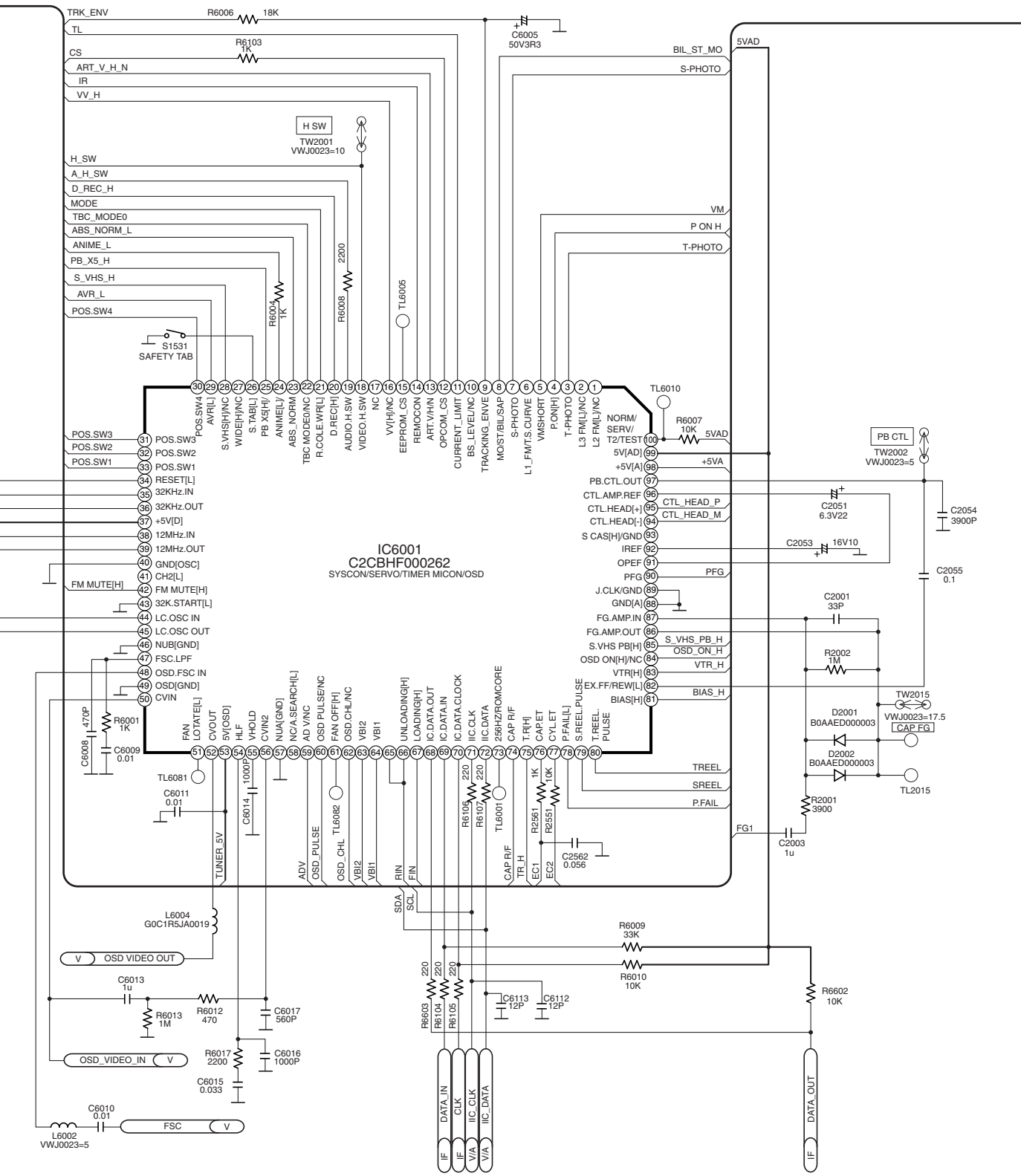
——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE



SCHEMATIC DIAGRAM-23

C MAIN (SYSTEM CONTROL:S) CIRCUIT

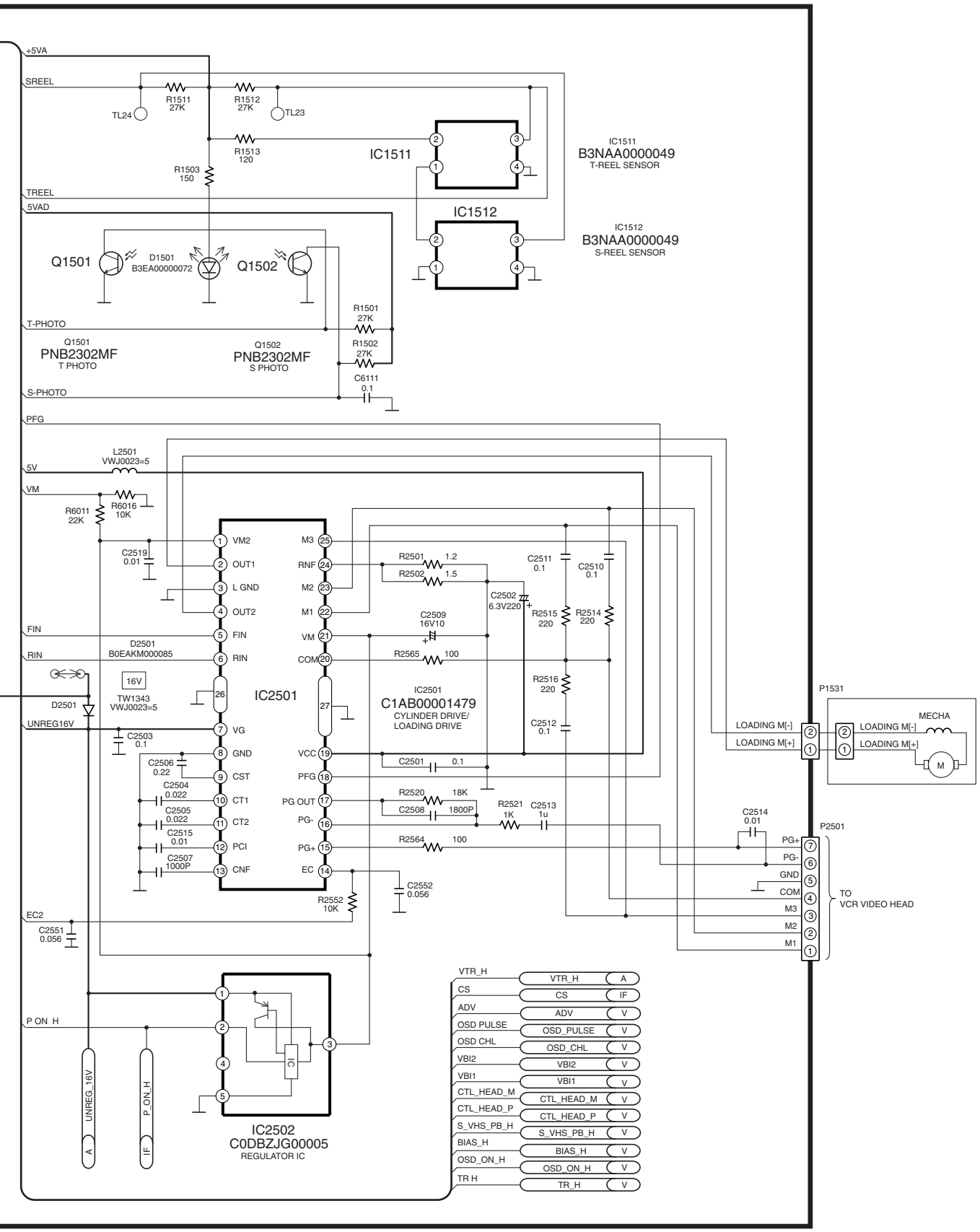
——— : +B SIGNAL LINE



SCHEMATIC DIAGRAM-24

C MAIN (SYSTEM CONTROL:S) CIRCUIT

——— : +B SIGNAL LINE

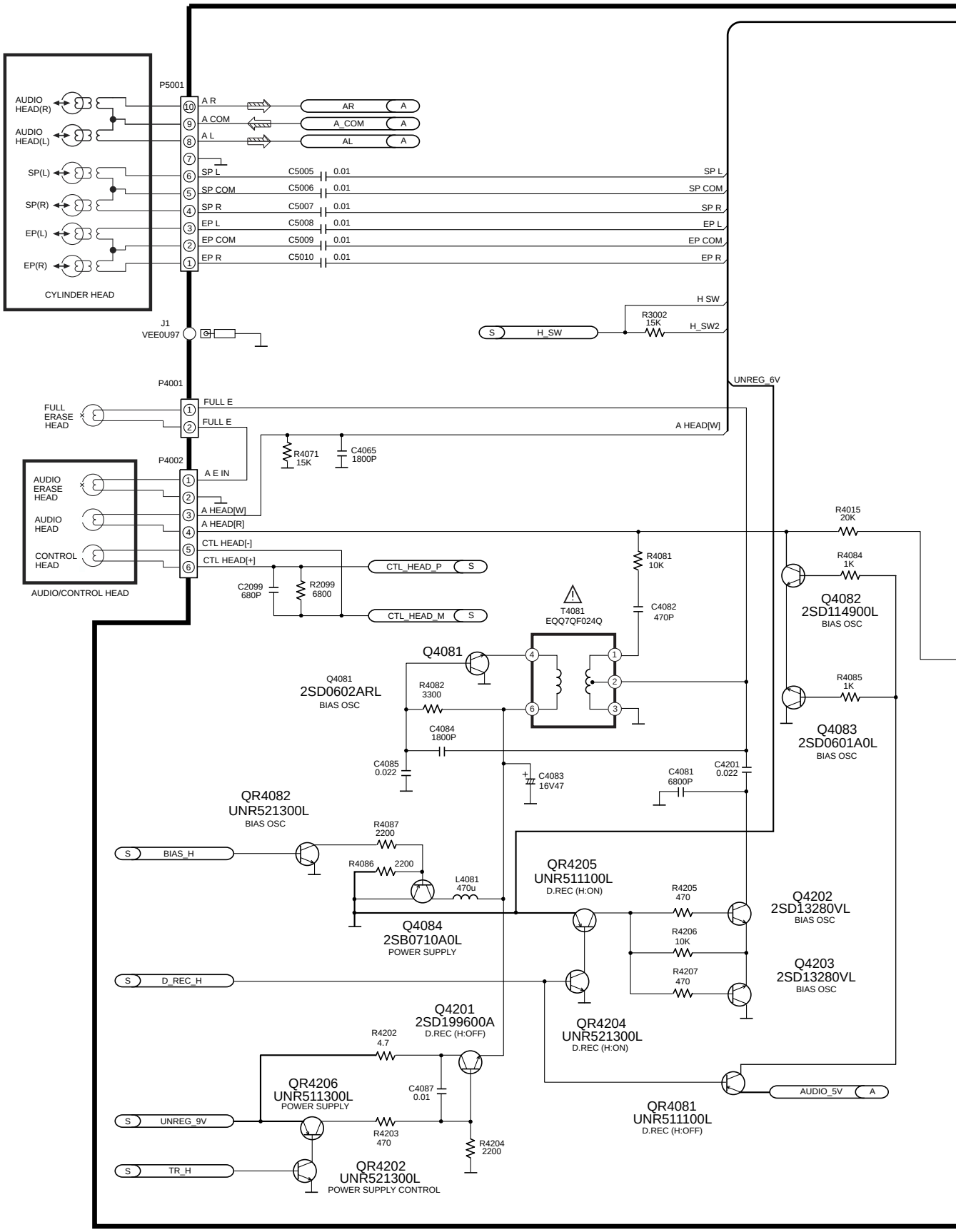


SCHEMATIC DIAGRAM-25

C MAIN (VIDEO:V) CIRCUIT

: +B SIGNAL LINE

: MAIN SIGNAL LINE



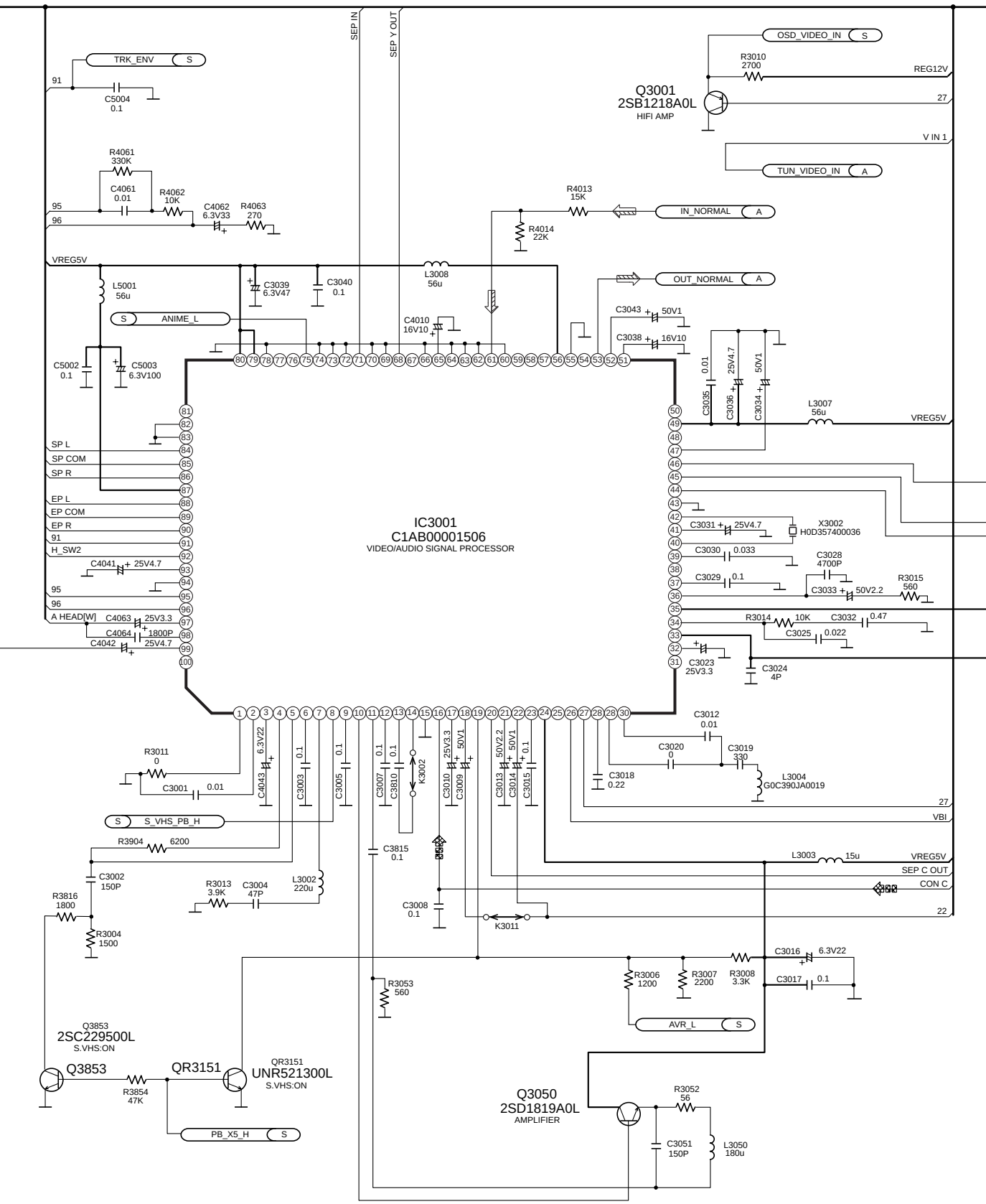
SCHEMATIC DIAGRAM-26

C MAIN (VIDEO:V) CIRCUIT

: +B SIGNAL LINE

: MAIN SIGNAL LINE

: DVD VIDEO SIGNAL LINE



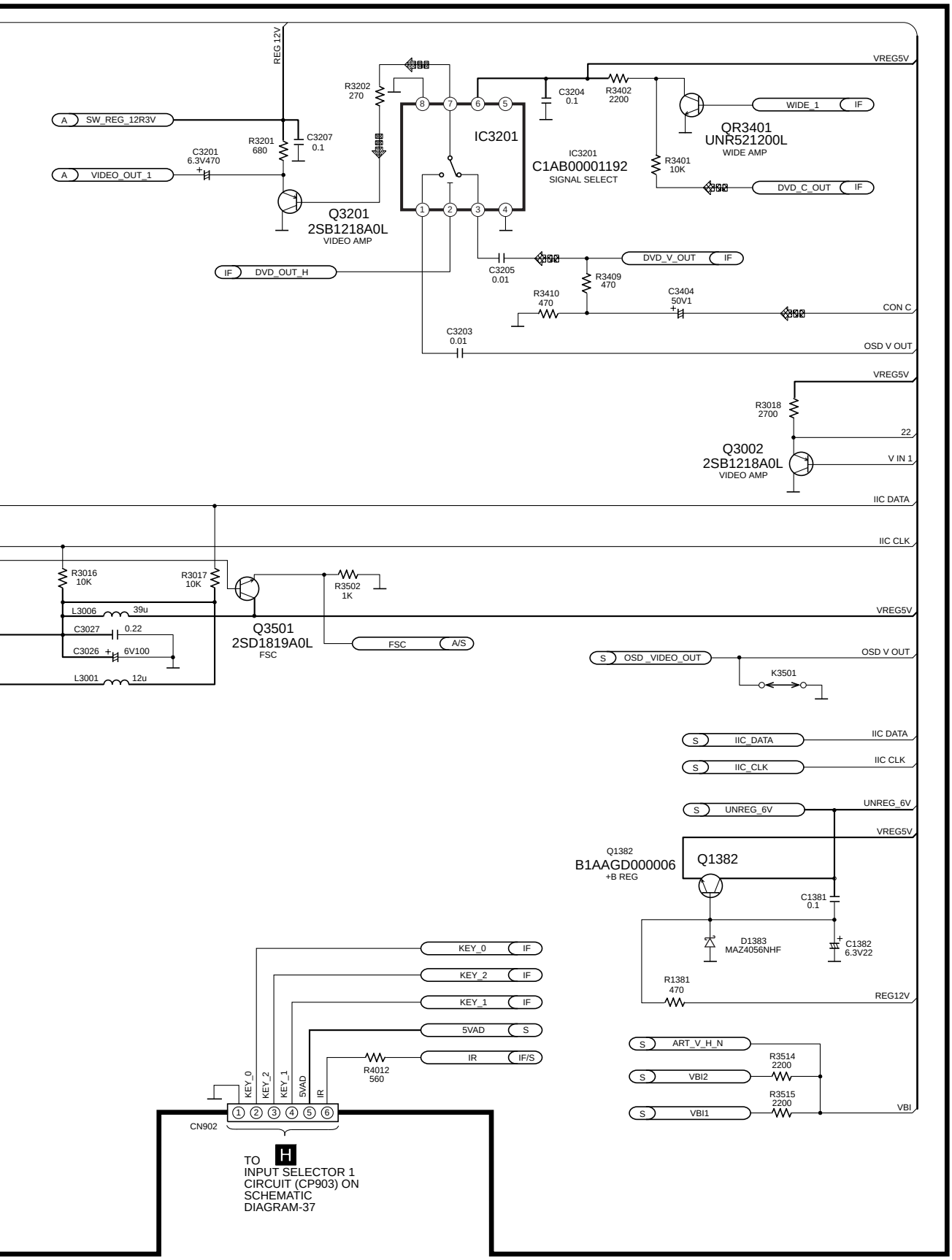
SCHEMATIC DIAGRAM-27

C MAIN (VIDEO:V) CIRCUIT

: +B SIGNAL LINE

: DVD VIDEO SIGNAL LINE

: VIDEO SIGNAL LINE



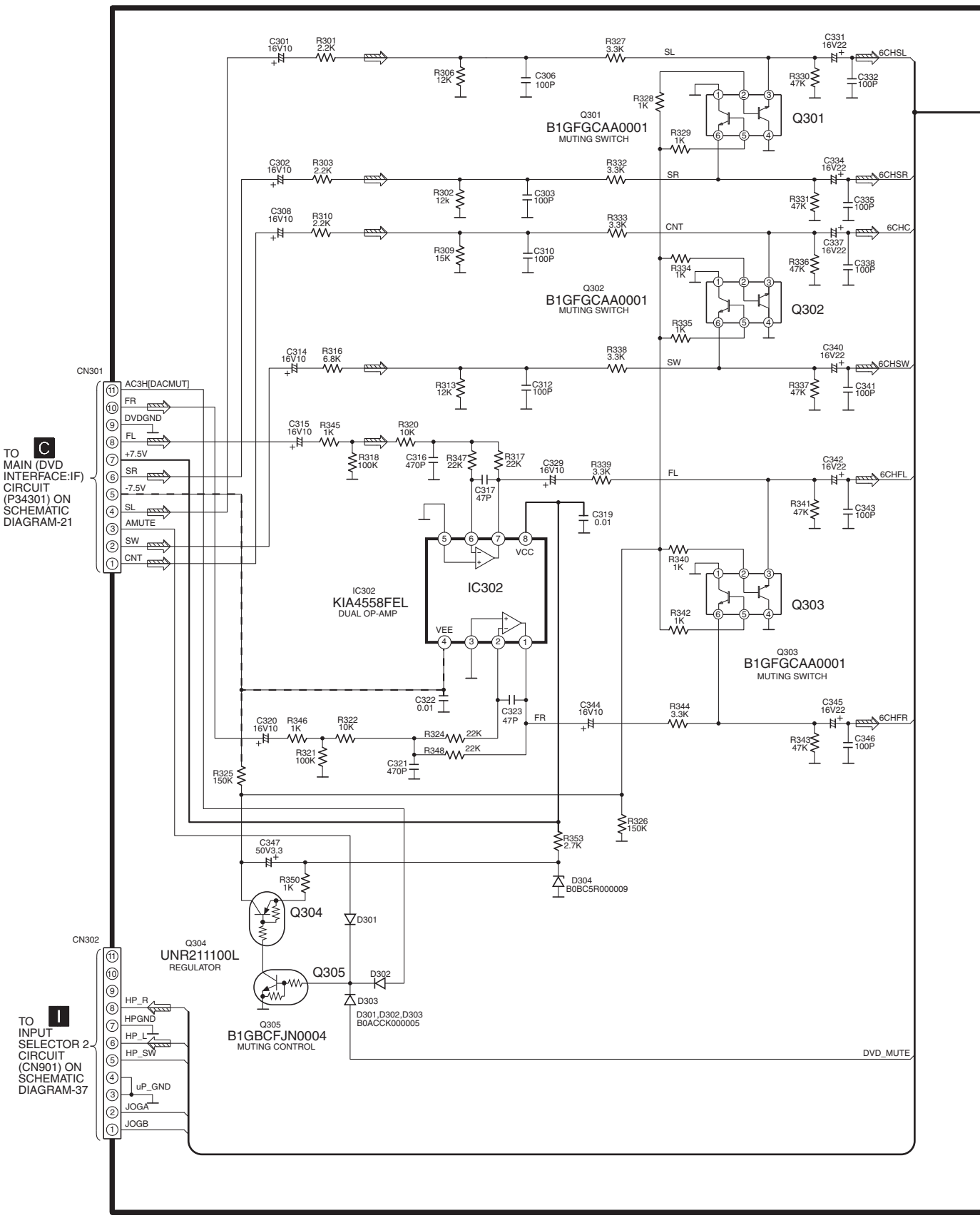
SCHEMATIC DIAGRAM-28

D DSP CIRCUIT

——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE

⇨ : MAIN SIGNAL LINE

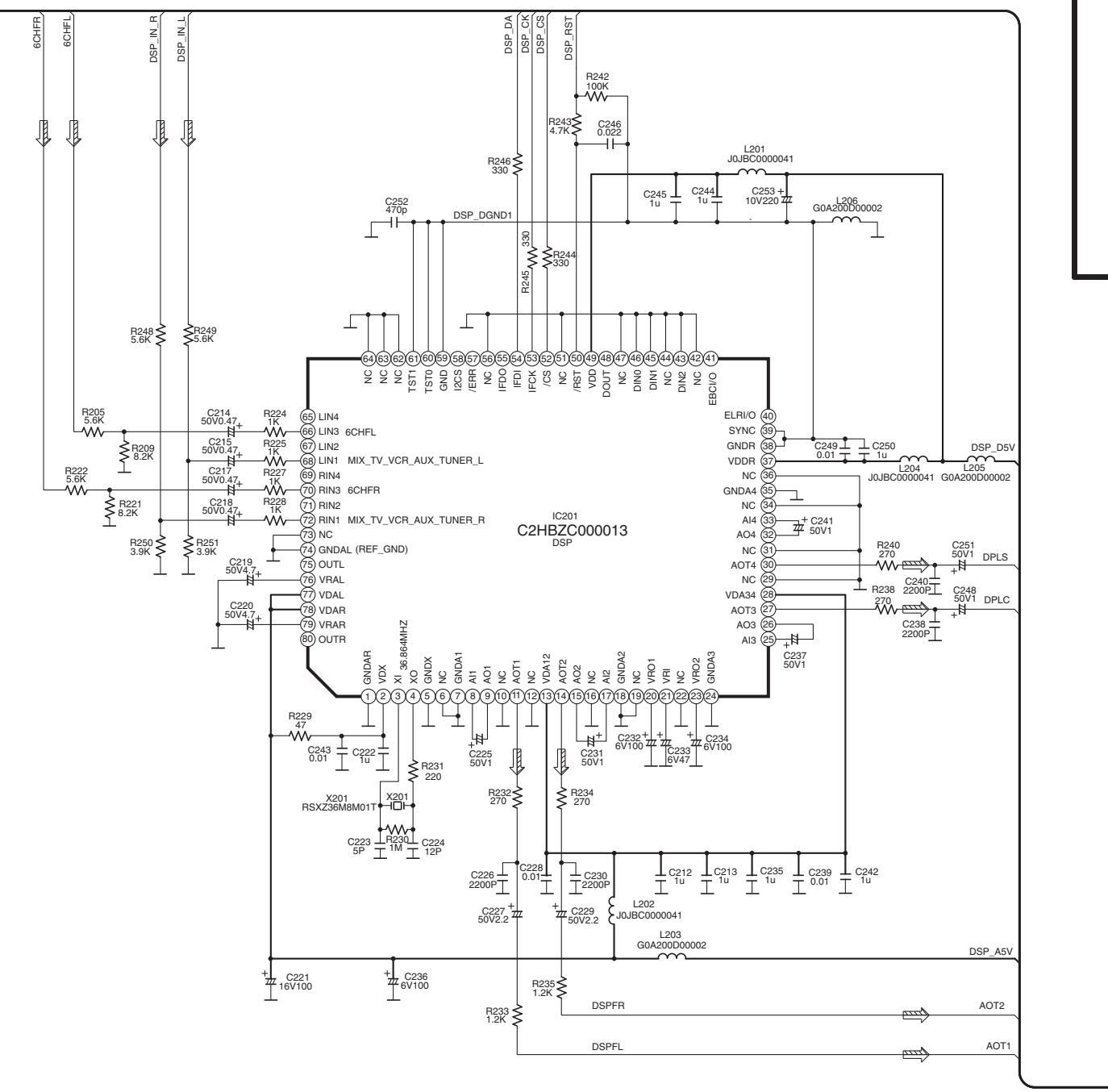


SCHEMATIC DIAGRAM-29

D DSP CIRCUIT

——— : +B SIGNAL LINE

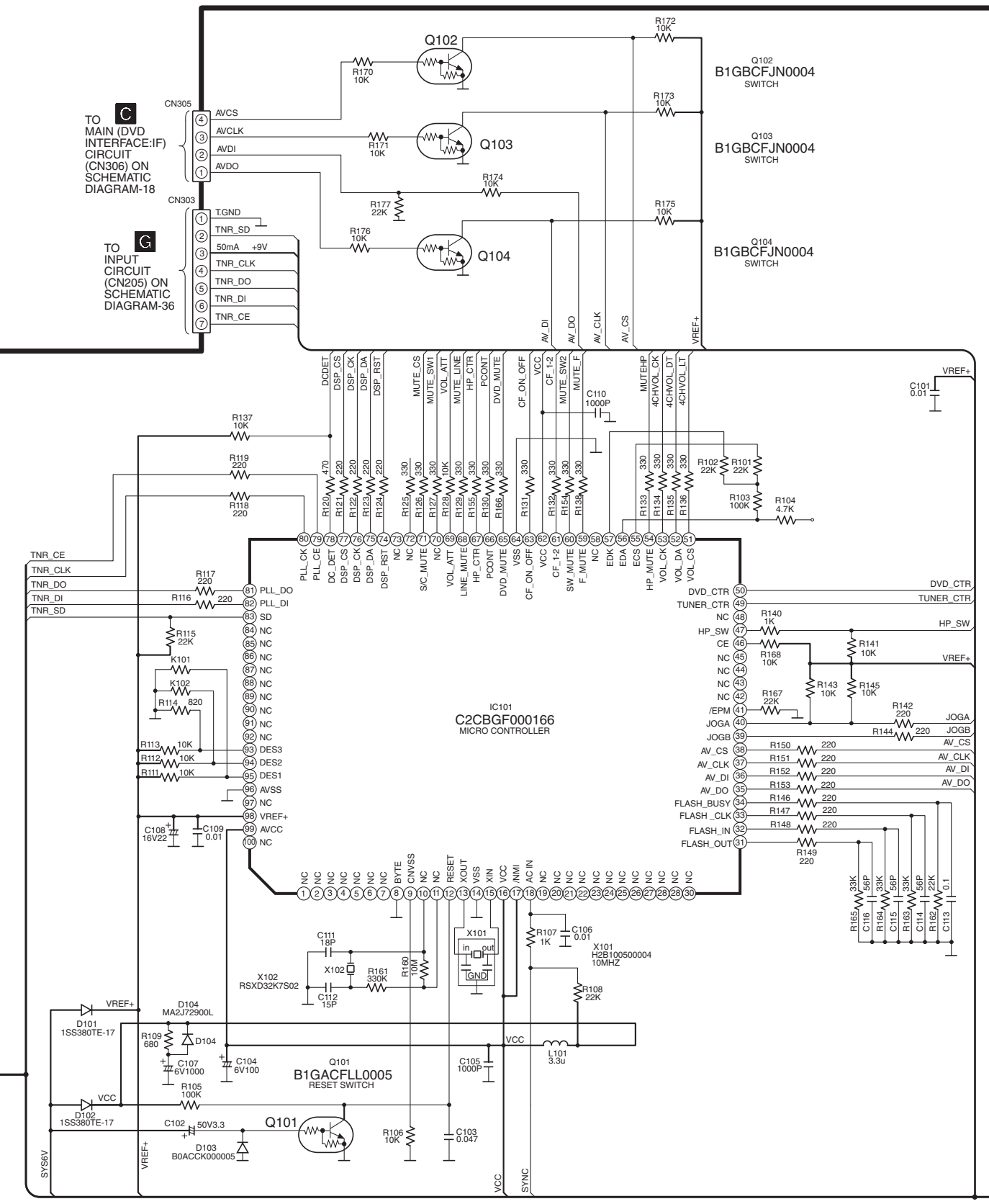
⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-30

D DSP CIRCUIT

——— : +B SIGNAL LINE



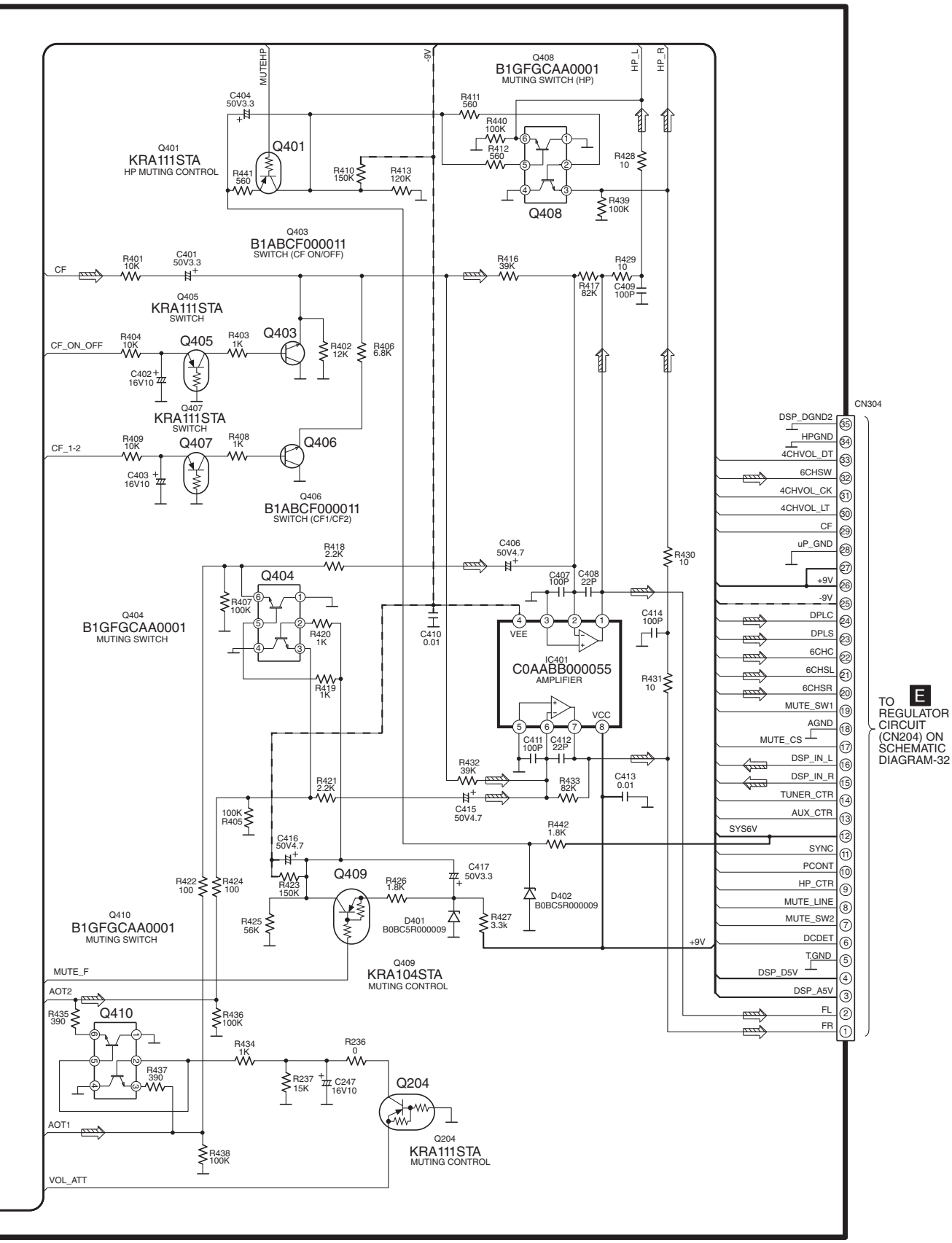
SCHEMATIC DIAGRAM-31

D DSP CIRCUIT

——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE

⇨ : MAIN SIGNAL LINE



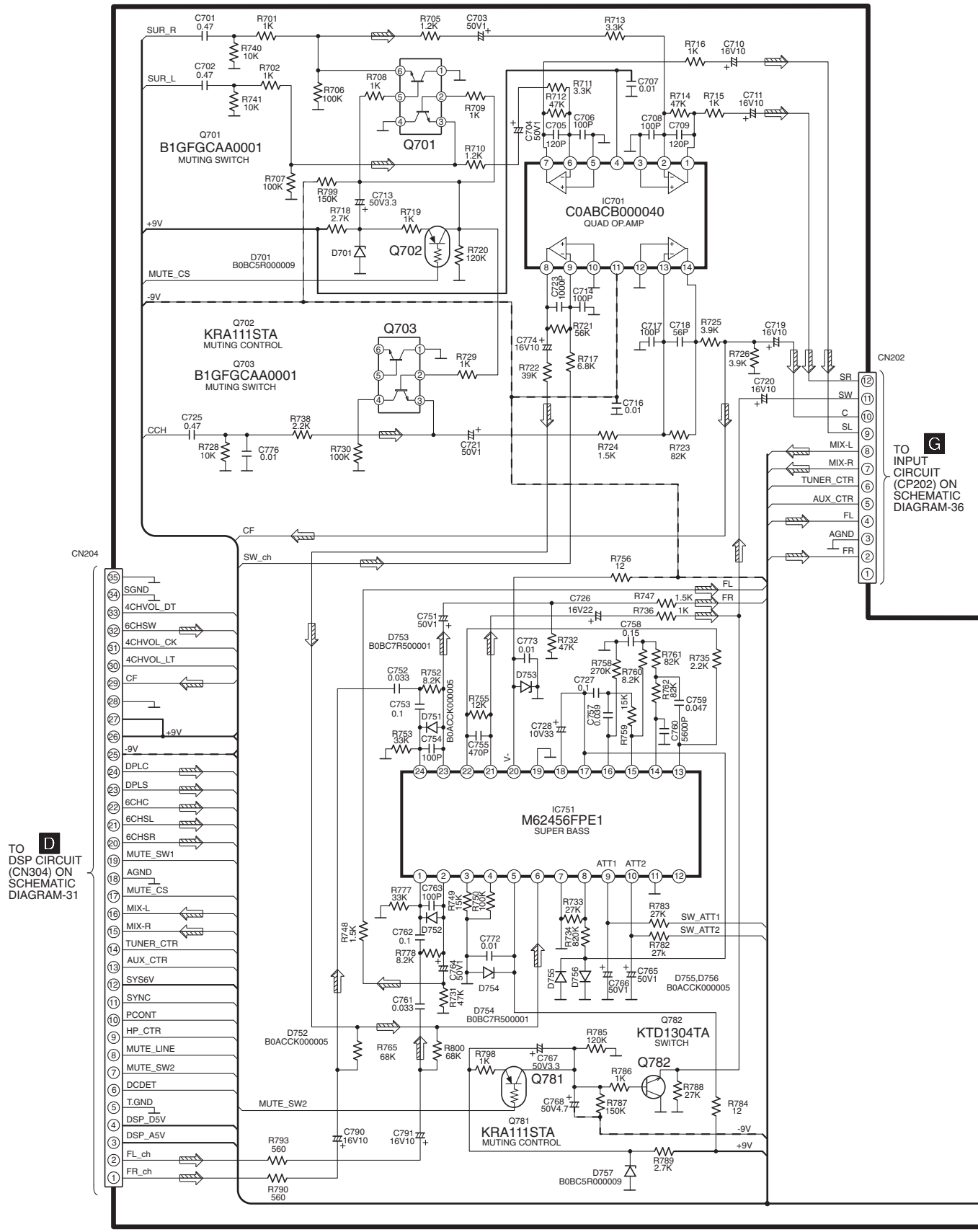
SCHEMATIC DIAGRAM-32

E REGULATOR CIRCUIT

——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE

⇨ : MAIN SIGNAL LINE



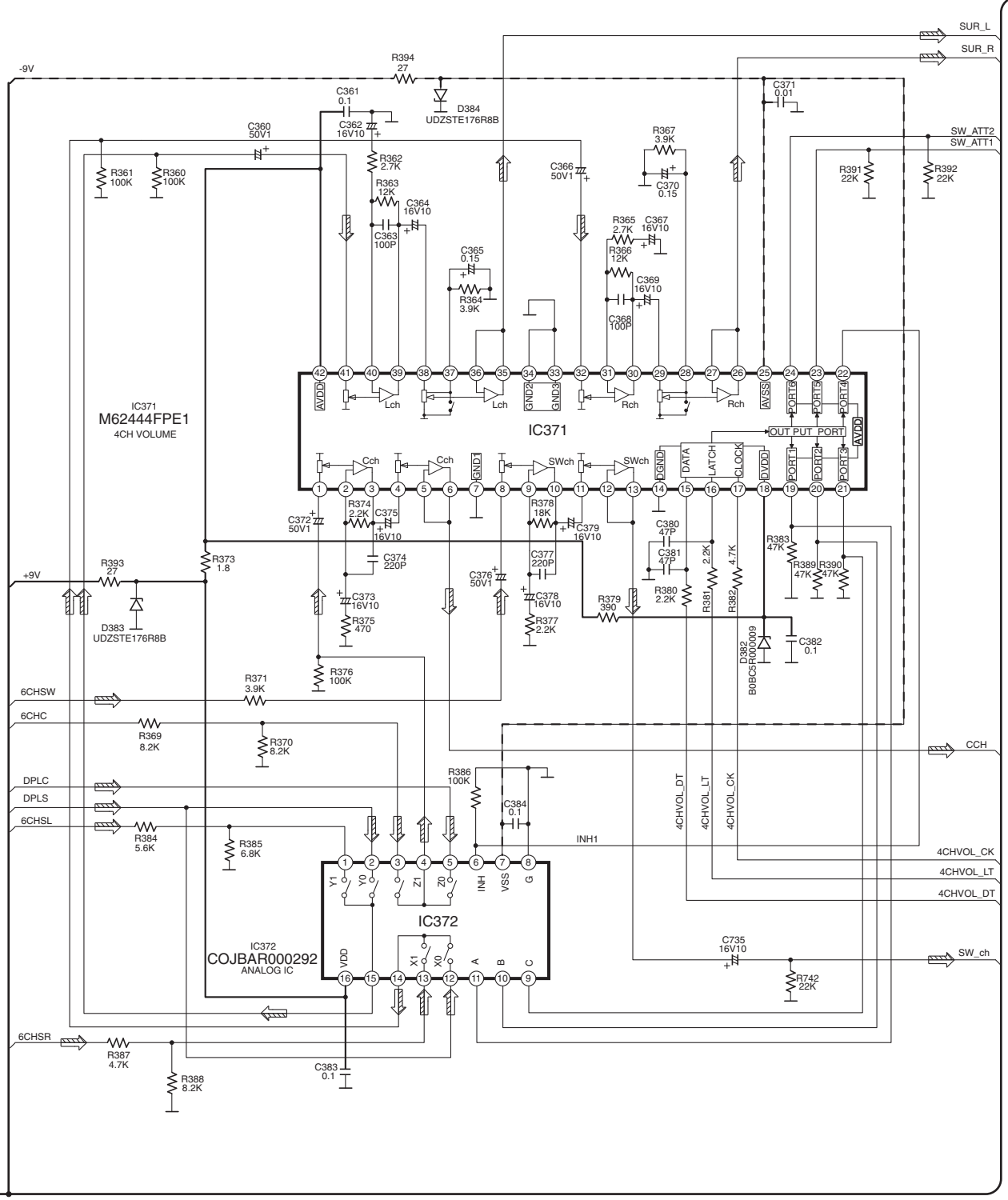
SCHEMATIC DIAGRAM-33

E REGULATOR CIRCUIT

——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE

⇒ : MAIN SIGNAL LINE

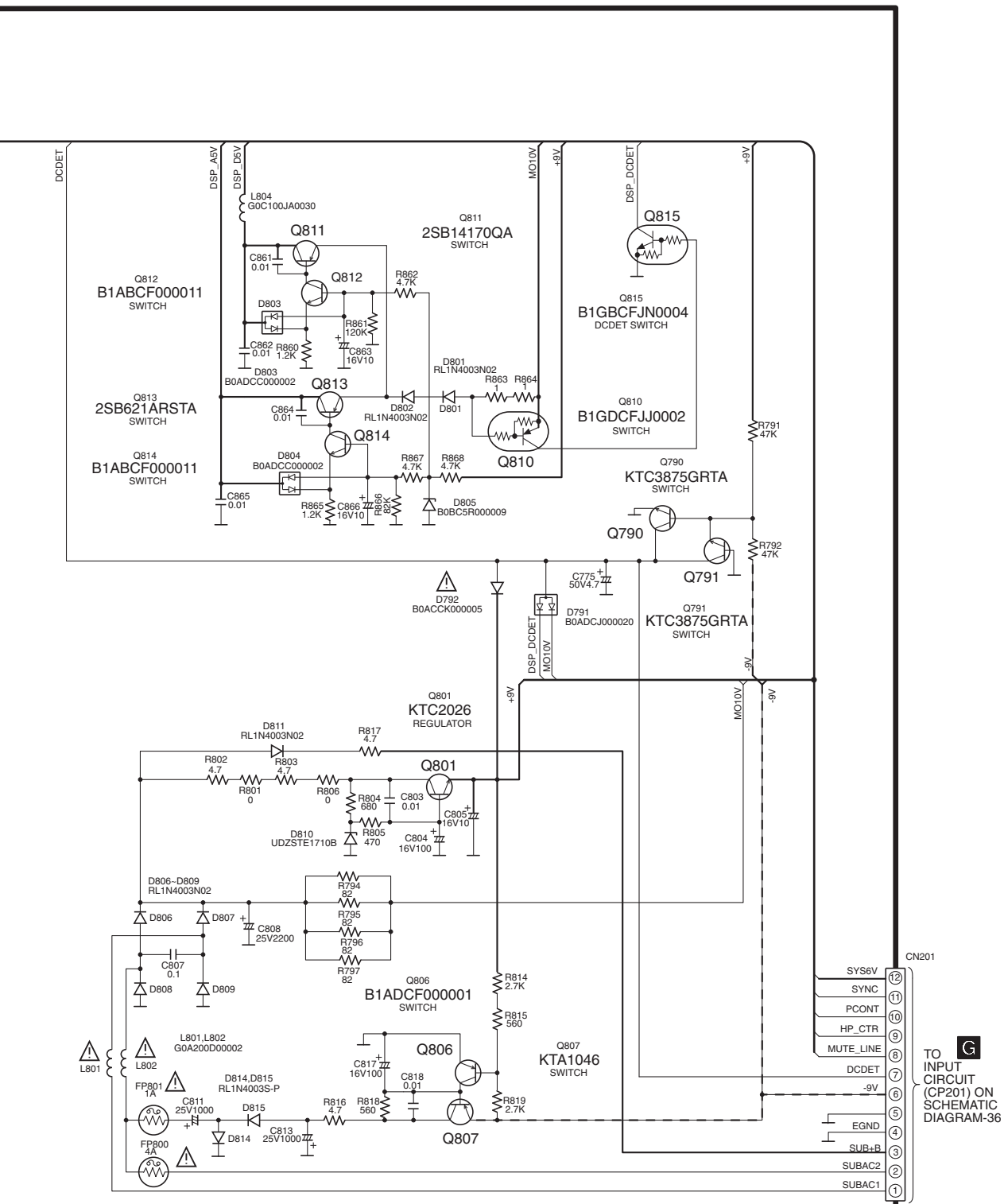


SCHEMATIC DIAGRAM-34

E REGULATOR CIRCUIT

——— : +B SIGNAL LINE

– – – : -B SIGNAL LINE

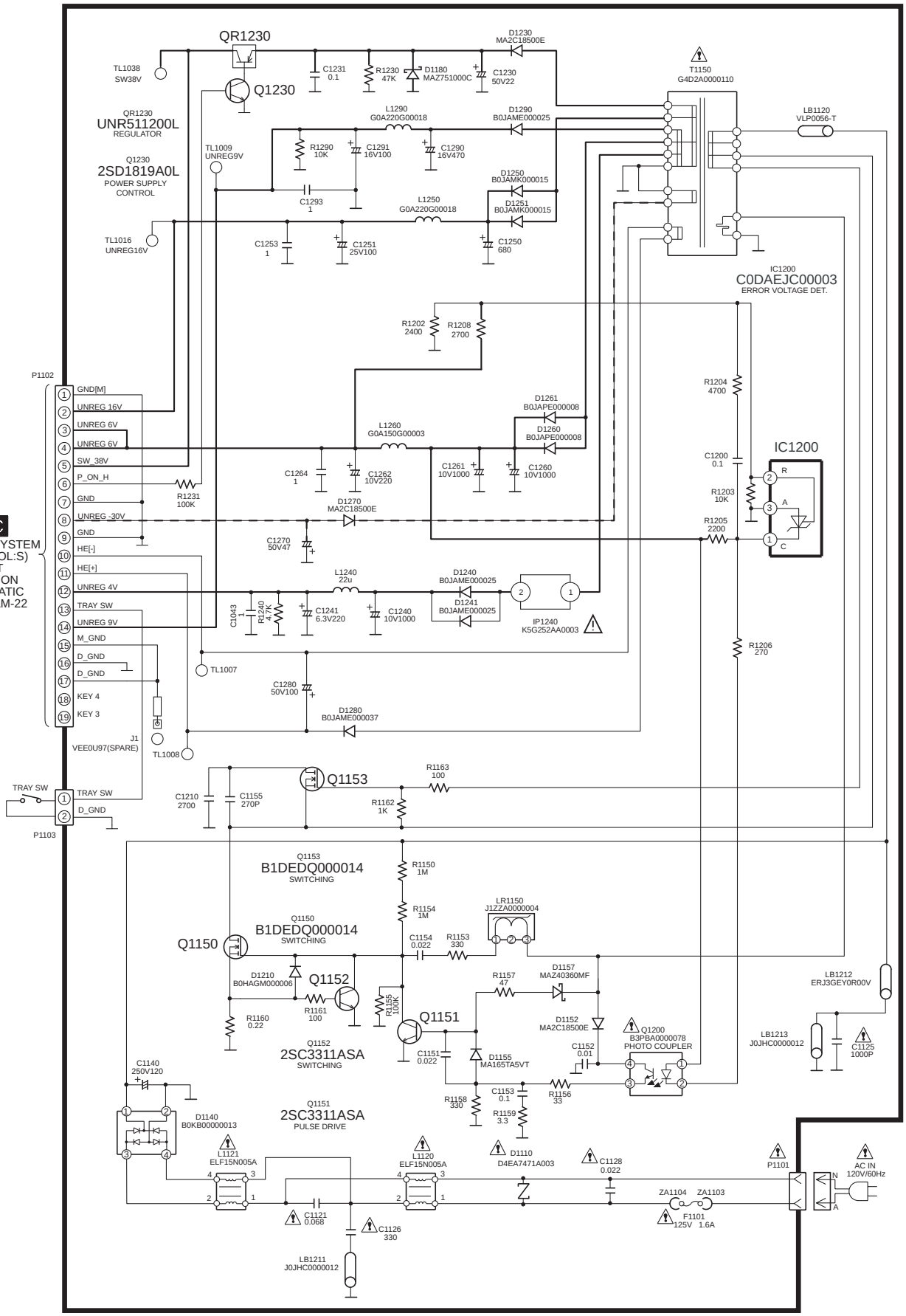


SCHEMATIC DIAGRAM-35

F POWER CIRCUIT

: -B SIGNAL LINE

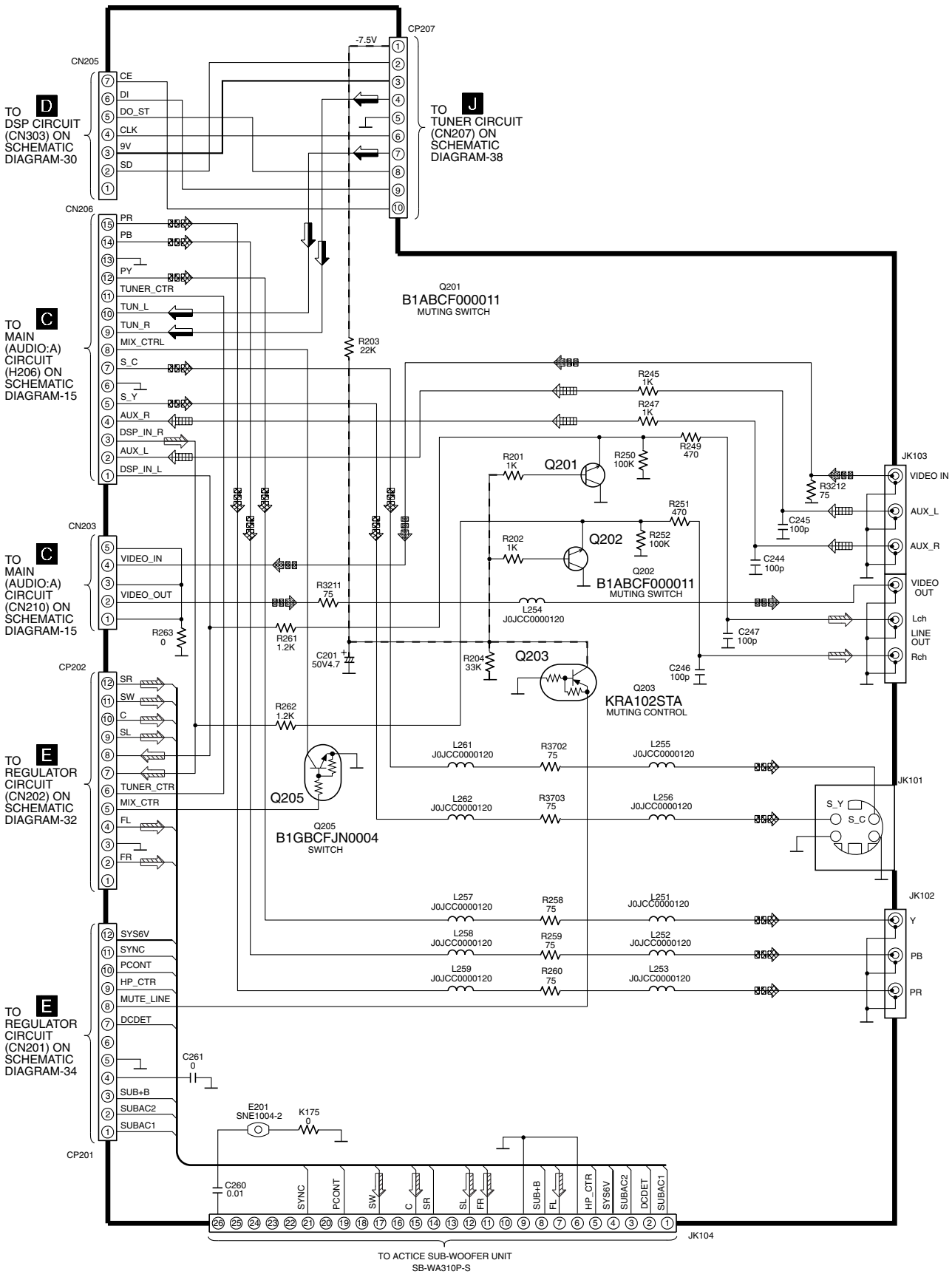
: +B SIGNAL LINE



SCHEMATIC DIAGRAM-36

G INPUT CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: AUX SIGNAL LINE
: VIDEO SIGNAL LINE
: AM/FM SIGNAL LINE
: DVD VIDEO SIGNAL LINE

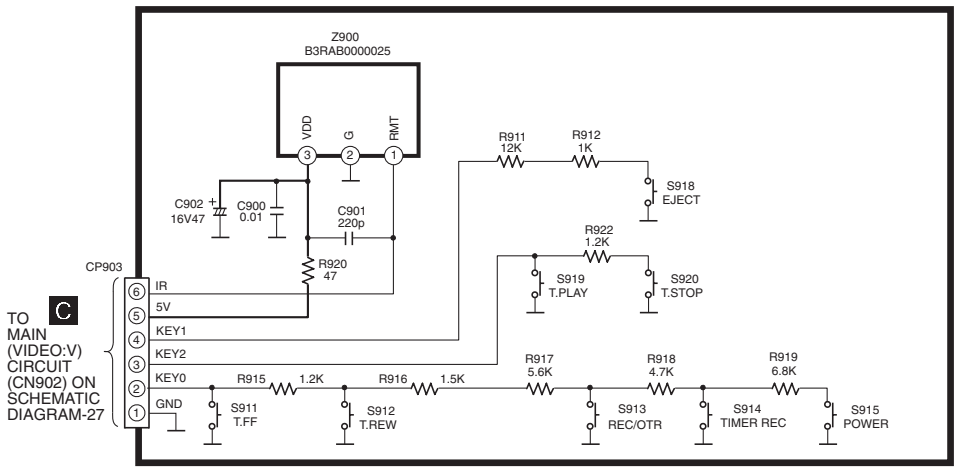


SCHEMATIC DIAGRAM-37

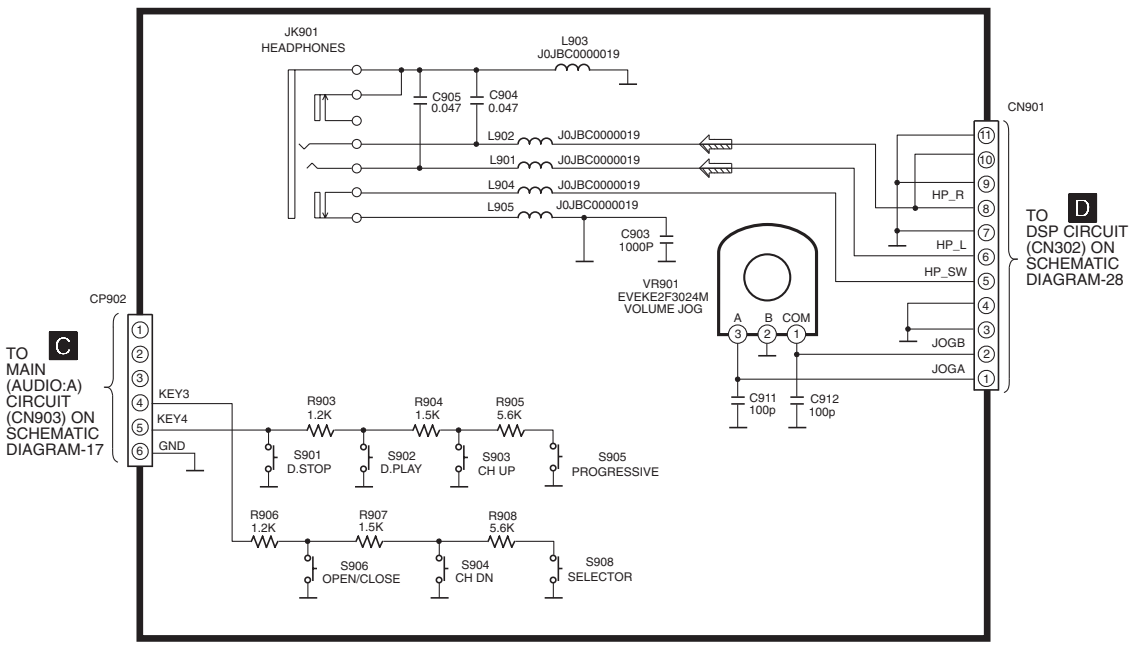
H INPUT SELECTOR 1 CIRCUIT

: +B SIGNAL LINE

: MAIN SIGNAL LINE



I INPUT SELECTOR 2 CIRCUIT

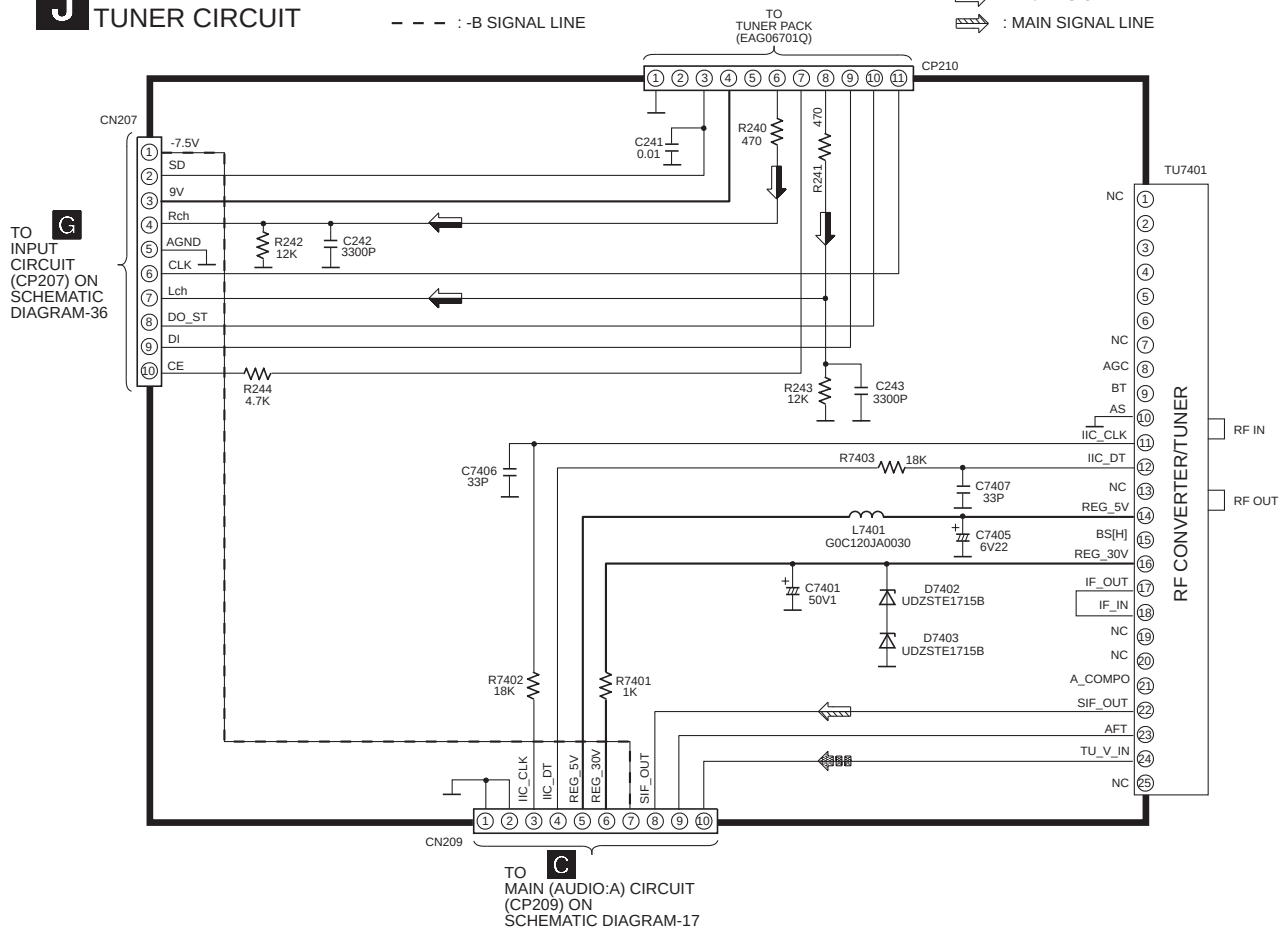


SCHEMATIC DIAGRAM-38

J TUNER CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE

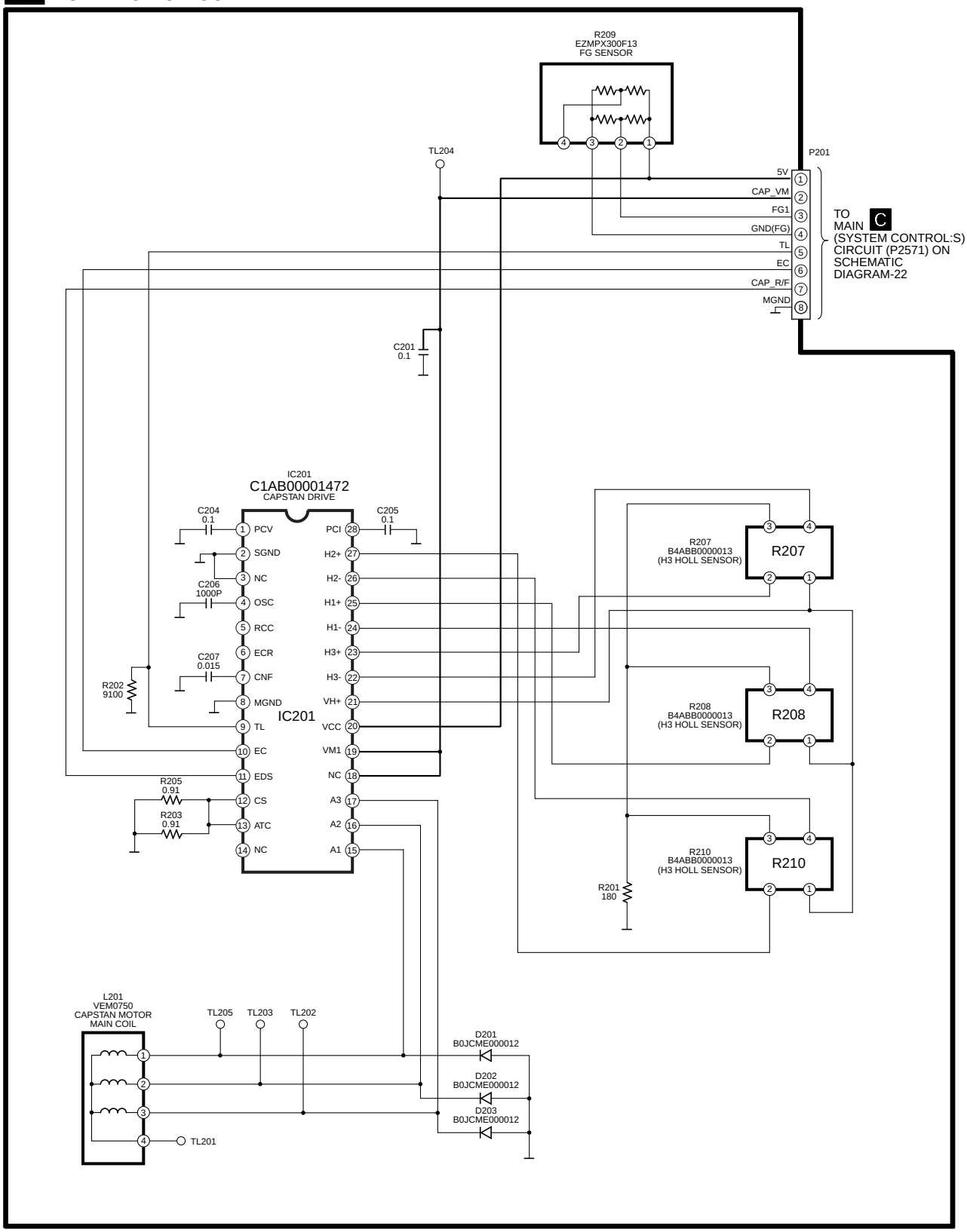
: VIDEO SIGNAL LINE
: AM/FM SIGNAL LINE
: MAIN SIGNAL LINE

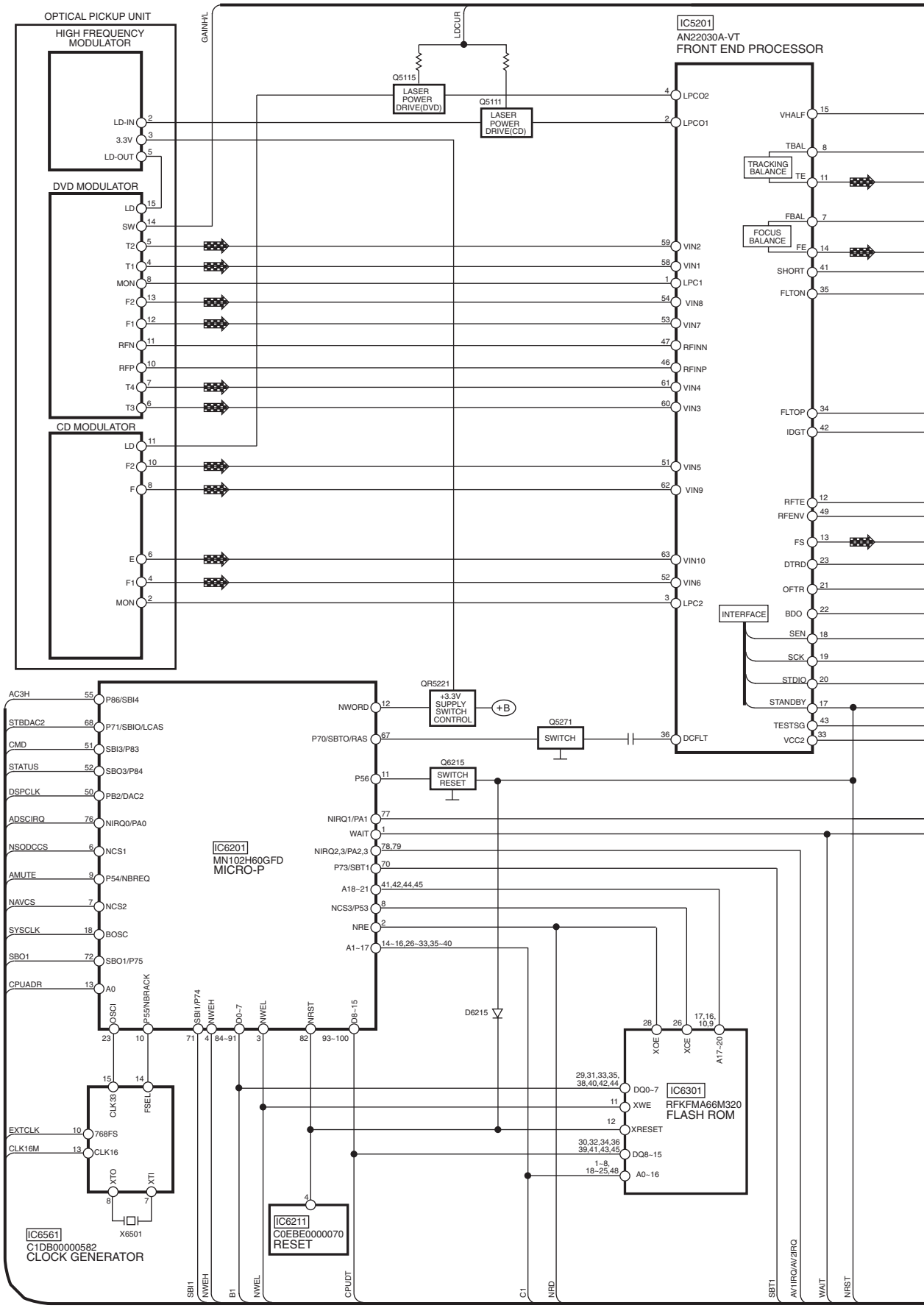


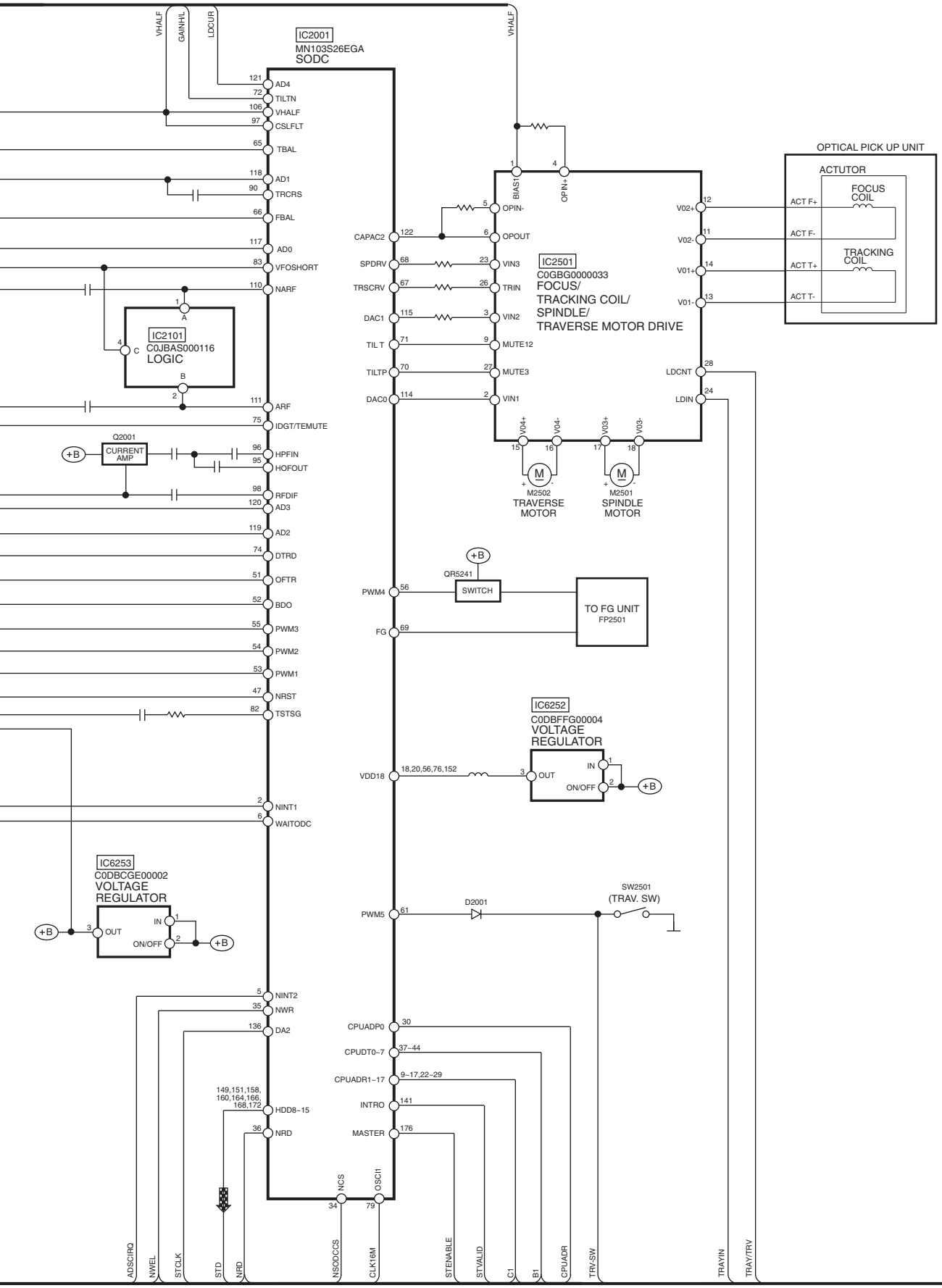
SCHEMATIC DIAGRAM - 39

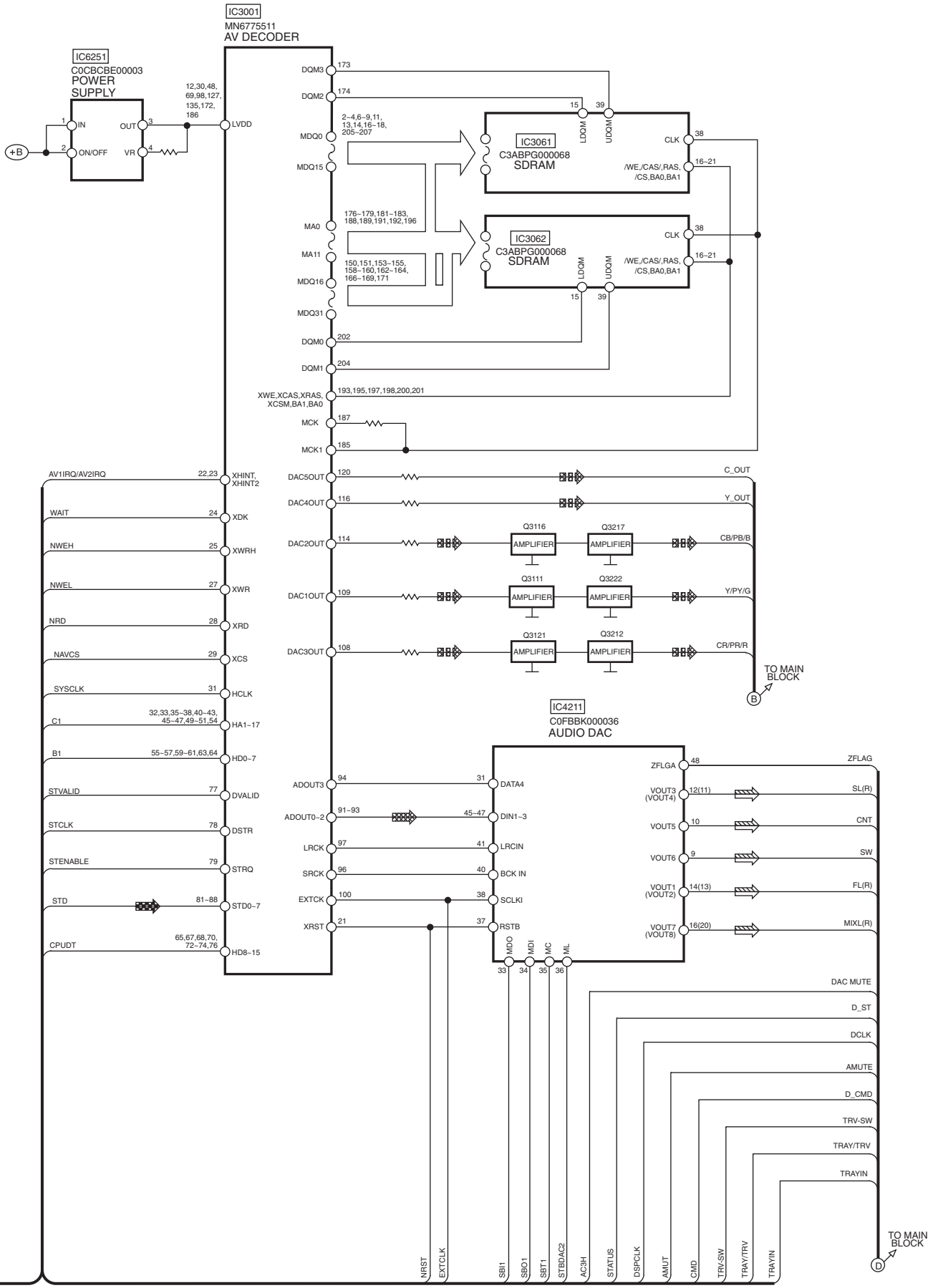
K VCR DECK CIRCUIT

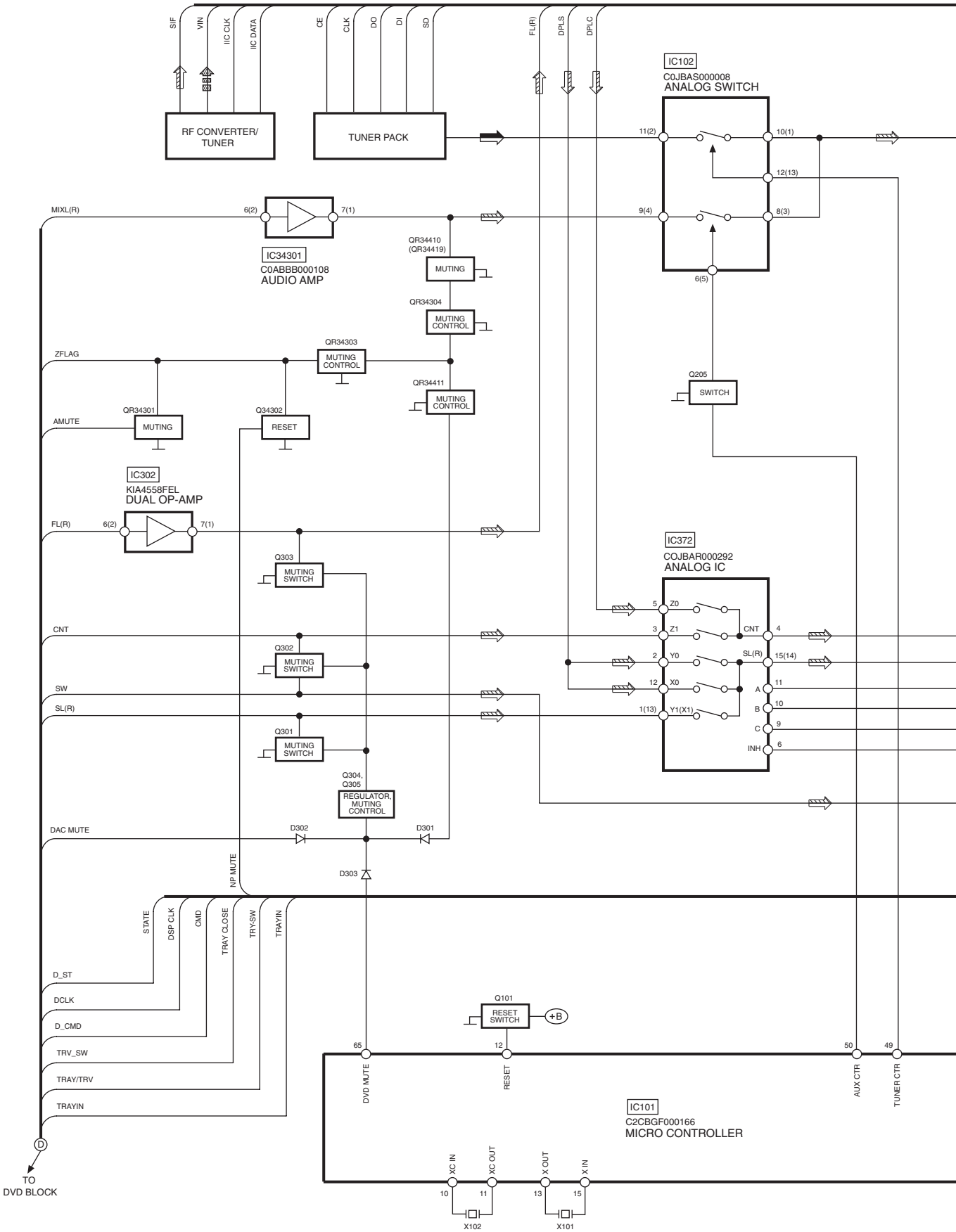
——— : +B SIGNAL LINE

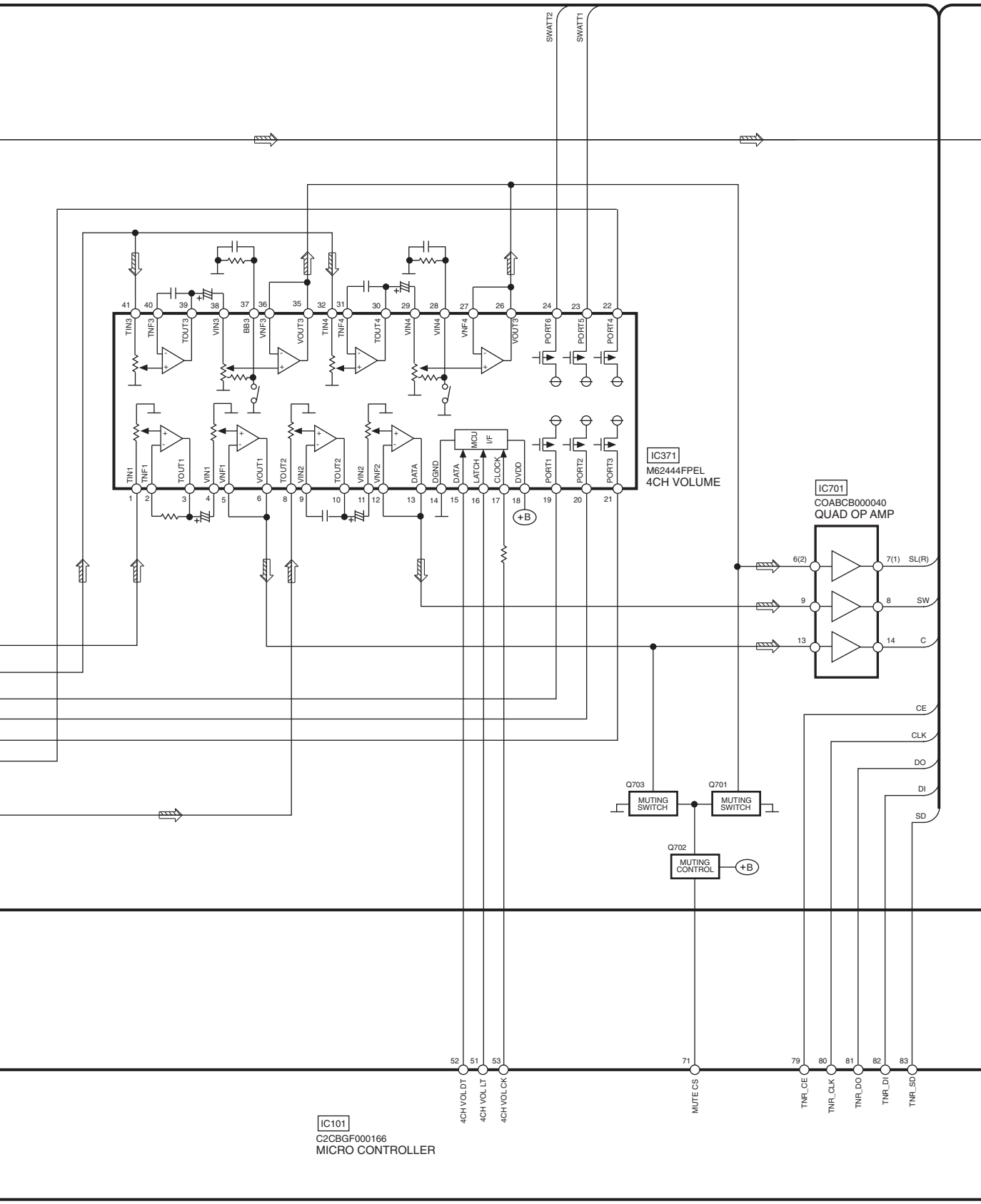


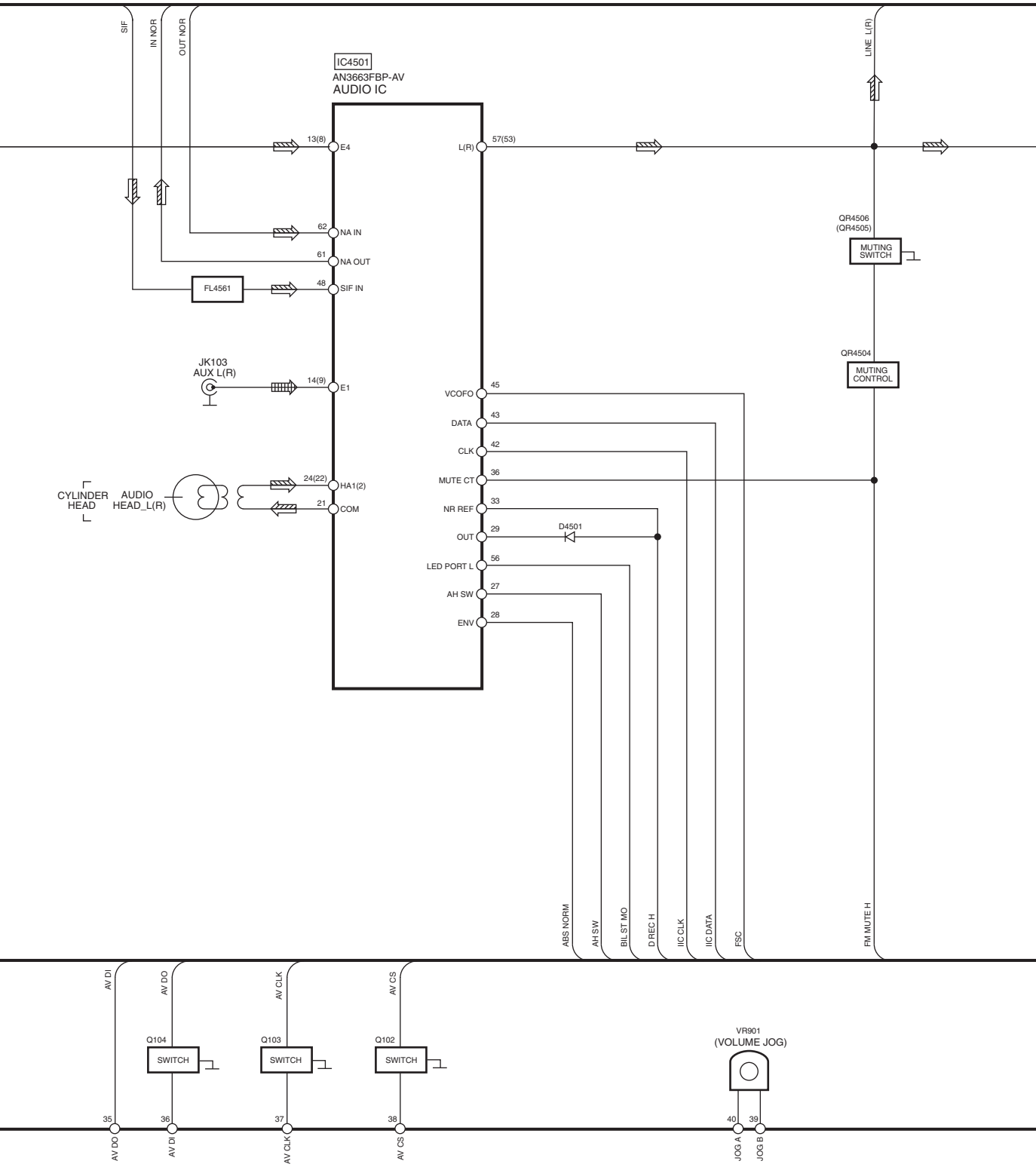

OPTICAL PICKUP UNIT
HIGH FREQUENCY MODULATOR
LD-IN
3.3V
LD-OUT
DVD MODULATOR
LD
SW
T2
T1
MON
F2
F1
RFN
RFP
T4
T3
CD MODULATOR
LD
F2
F
E
F1
MON
GAINHL
LDCUR
Q5115
LASER POWER DRIVE(DVD)
Q5111
LASER POWER DRIVE(CD)
IC5201
AN22030A-VT
FRONT END PROCESSOR
LPCO2
LPCO1
VIN2
VIN1
LPC1
VIN8
VIN7
RFINN
RFINP
VIN4
VIN3
VIN5
VIN9
VIN10
VIN6
LPC2
VHALF
TBAL
TRACKING BALANCE
TE
FBAL
FOCUS BALANCE
FE
SHORT
FLTON
FLTOP
IDGT
RFTE
RFENV
FS
DTRD
OFTR
INTERFACE
BDO
SEN
SCK
STDIO
STANDBY
TESTSG
VCC2
DCFLT
QR5221
+3.3V SUPPLY SWITCH CONTROL
+B
Q5271
SWITCH
Q6215
SWITCH RESET
D6215
IC6201
MN102H60GFD
MICRO-P
AC3H
STBDAC2
CMD
STATUS
DSPCLK
ADSCIRQ
NSODCCS
AMUTE
NAVCS
SYSCLK
SBO1
CPUADR
P86/SBI4
P71/SBIO/LCAS
SBI3/P83
SBO3/P84
PB2/DAC2
NIRQ0/PA0
NCS1
P54/NBREQ
NCS2
BOSC
SBO1/P75
A0
NWORD
P70/SBTO/RAS
P56
NIRQ1/PA1
WAIT
NIRQ2,3/PA2,3
P73/SBT1
A18~21
NCS3/P53
NRE
A1~17
OSCI
P55/NBRACK
SBI1/P74
NWEH
D0~7
NWEL
NRST
D8~15
IC6301
RFKFMA66M320
FLASH ROM
XOE
XCE
A17~20
DQ0~7
XWE
XRESET
DQ8~15
A0~16
IC6561
C1DB00000582
CLOCK GENERATOR
CLK32
FSEL
EXTCLK
768FS
CLK16M
CLK16
XTO
XTI
X6501
IC6211
C0EBE0000070
RESET
SBI1
NWEH
B1
NWEL
CPUDT
C1
NRD
SBT1
AV1IRQ/AV2IRQ
WAIT
NRST

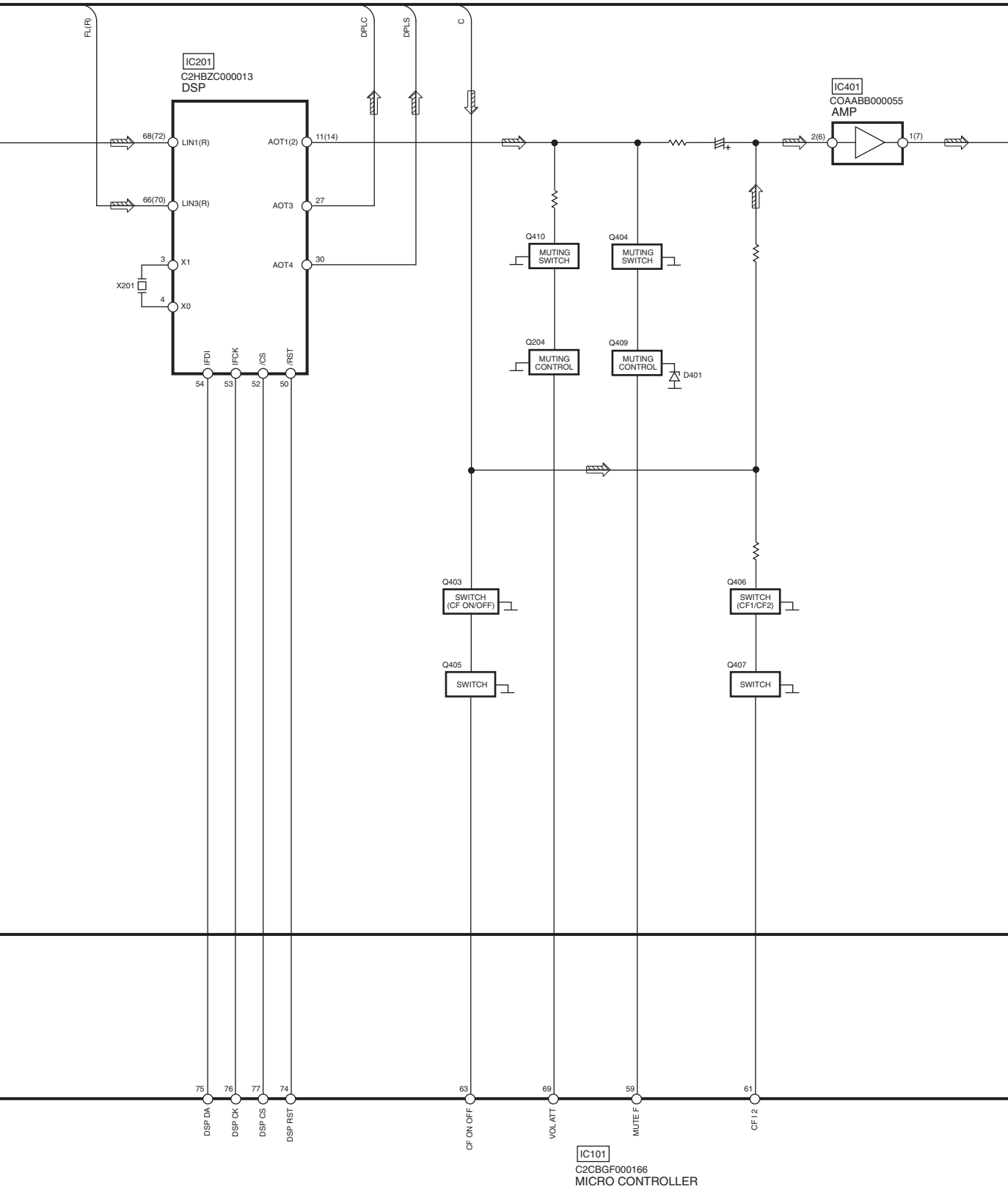

IC2001
MN103S26EGA
SODC
VHALF
GAINHL
LDCUR
AD4
TILTN
VHALF
CSLFLT
TBAL
AD1
TRCRS
FBAL
AD0
VFOSHORT
NARF
IC2101
C0JBAS000116
LOGIC
ARF
IDGT/TEMUTE
Q2001
CURRENT AMP
+B
HPFIN
HOFOUT
RFDIF
AD3
AD2
DTRD
OFTR
BDO
PWM3
PWM2
PWM1
NRST
TSTSG
NINT1
WAITODC
IC6253
C0DBCGE00002
VOLTAGE REGULATOR
OUT
IN
ON/OFF
NINT2
NWR
DA2
149,151,158,
160,164,166,
168,172
HDD8-15
NRD
NCS
OSCI1
ADSCIRQ
NWEL
STCLK
STD
NRD
NSODCCS
CLK16M
BIAS1
OPIN+
OPIN-
OPOUT
VIN3
TRIN
VIN2
MUTE12
MUTE3
VIN1
CAPAC2
SPDRV
TRSCRV
DAC1
TIL T
TILTP
DAC0
IC2501
C0GBG0000033
FOCUS/
TRACKING COIL/
SPINDLE/
TRAVERSE MOTOR DRIVE
V04+
V04-
V03+
V03-
M2502
TRAVERSE MOTOR
M2501
SPINDLE MOTOR
V02+
V02-
V01+
V01-
LDCNT
LDIN
OPTICAL PICK UP UNIT
ACTUTOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-
QR5241
SWITCH
PWM4
FG
TO FG UNIT
FP2501
IC6252
C0DBFFG00004
VOLTAGE REGULATOR
VDD18
18,20,56,76,152
CPUADP0
CPUDT0-7
CPUADR1-17
INTRO
MASTER
9-17,22-29
D2001
SW2501
(TRAV. SW)
PWM5
TRAYIN
TRAY/TRV
TRV-SW
STENABLE
STVALID
C1
B1
CPUADR

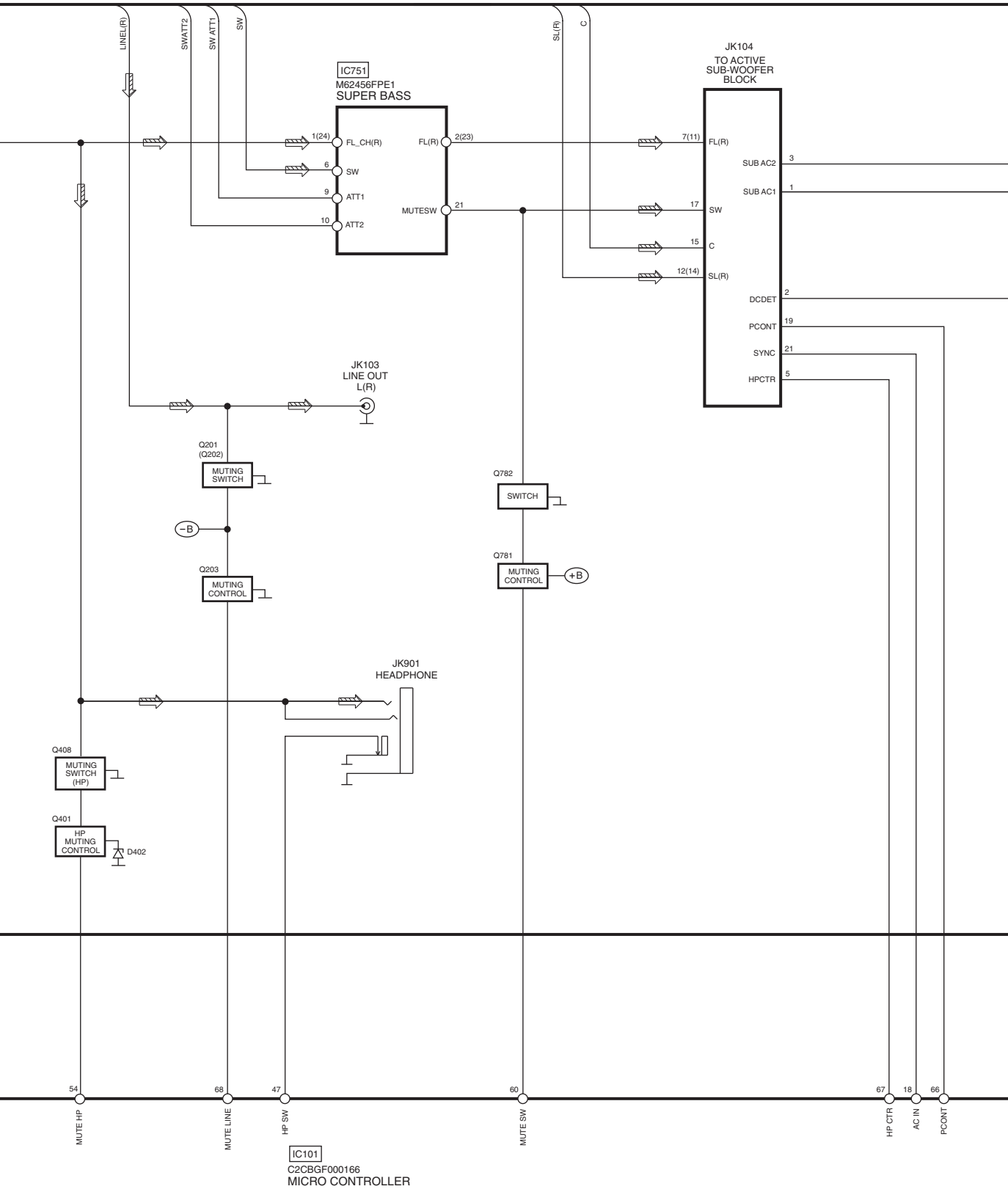

IC3001
MN6775511
AV DECODER
IC6251
C0CBCBE00003
POWER SUPPLY
+B
IN
ON/OFF
OUT
VR
12,30,48, 69,98,127, 135,172, 186
LVDD
DQM3
DQM2
MDQ0
MDQ15
MA0
MA11
MDQ16
MDQ31
DQM0
DQM1
XWE,XCAS,XRAS, XCSM,BA1,BA0
MCK
MCK1
2~4,6~9,11, 13,14,16~18, 205~207
176~179,181~183, 188,189,191,192,196
150,151,153~155, 158~160,162~164, 166~169,171
IC3061
C3ABPG000068
SDRAM
IC3062
C3ABPG000068
SDRAM
LDQM
UDQM
CLK
/WE,/CAS/,RAS, /CS,BA0,BA1
16~21
AV1IRQ/AV2IRQ
XHINT, XHINT2
WAIT
XDK
NWEH
XWRH
NWEL
XWR
NRD
XRD
NAVCS
XCS
SYSCLK
HCLK
C1
HA1~17
B1
HD0~7
STVALID
DVALID
STCLK
DSTR
STENABLE
STRQ
STD
STD0~7
CPUDT
HD8~15
DAC5OUT
DAC4OUT
DAC2OUT
DAC1OUT
DAC3OUT
C_OUT
Y_OUT
CB/PB/B
Y/PY/G
CR/PR/R
Q3116
Q3217
Q3111
Q3222
Q3121
Q3212
AMPLIFIER
TO MAIN BLOCK
IC4211
C0FBBK000036
AUDIO DAC
ADOUT3
ADOUT0~2
LRCK
SRCK
EXTCK
XRST
DATA4
DIN1~3
LRCIN
BCK IN
SCLKI
RSTB
MDO
MDI
MC
ML
ZFLGA
VOUT3 (VOUT4)
VOUT5
VOUT6
VOUT1 (VOUT2)
VOUT7 (VOUT8)
ZFLAG
SL(R)
CNT
SW
FL(R)
MIXL(R)
DAC MUTE
D_ST
DCLK
AMUTE
D_CMD
TRV-SW
TRAY/TRV
TRAYIN
NRST
EXTCLK
SBI1
SBO1
SBT1
STBDAC2
AC3H
STATUS
DSPCLK
AMUT
CMD
TRV-SW
TRAY/TRV
TRAYIN
TO MAIN BLOCK

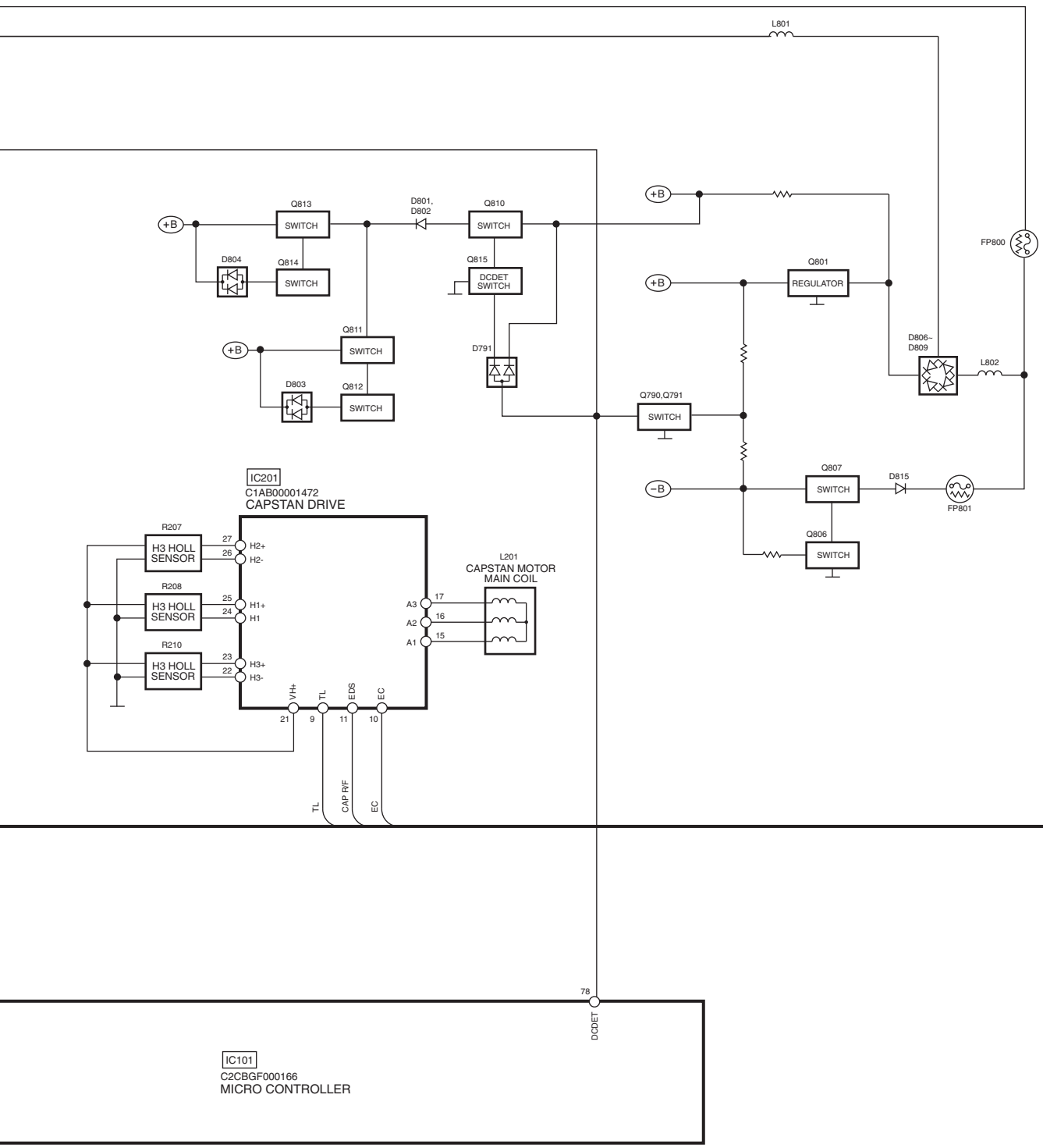

SIF
VIN
IIC CLK
IIC DATA
CE
CLK
DO
DI
SD
FL(R)
DPLS
DPLC
RF CONVERTER/ TUNER
TUNER PACK
IC102
C0JBAS000008
ANALOG SWITCH
11(2)
10(1)
12(13)
9(4)
8(3)
6(5)
MIXL(R)
6(2)
7(1)
IC34301
C0ABBB000108
AUDIO AMP
QR34410
(QR34419)
MUTING
QR34304
MUTING CONTROL
QR34303
MUTING CONTROL
ZFLAG
QR34411
MUTING CONTROL
Q205
SWITCH
QR34301
MUTING
AMUTE
Q34302
RESET
IC302
KIA4558FEL
DUAL OP-AMP
FL(R)
6(2)
7(1)
Q303
MUTING SWITCH
IC372
C0JBAR000292
ANALOG IC
5
Z0
CNT
3
Z1
4
Q302
MUTING SWITCH
2
Y0
SL(R)
15(14)
SW
12
X0
A
11
SL(R)
1(13)
Y1(X1)
B
10
C
9
INH
6
Q301
MUTING SWITCH
Q304,
Q305
REGULATOR, MUTING CONTROL
DAC MUTE
D302
D301
D303
NP MUTE
STATE
DSP CLK
CMD
TRAY CLOSE
TRY-SW
TRAYIN
D_ST
DCLK
D_CMD
TRV_SW
TRAY/TRV
TRAYIN
Q101
RESET SWITCH
+B
65
12
50
49
DVD MUTE
RESET
AUX CTR
TUNER CTR
IC101
C2CBGF000166
MICRO CONTROLLER
XC IN
XC OUT
X OUT
X IN
10
11
13
15
X102
X101
D
TO
DVD BLOCK

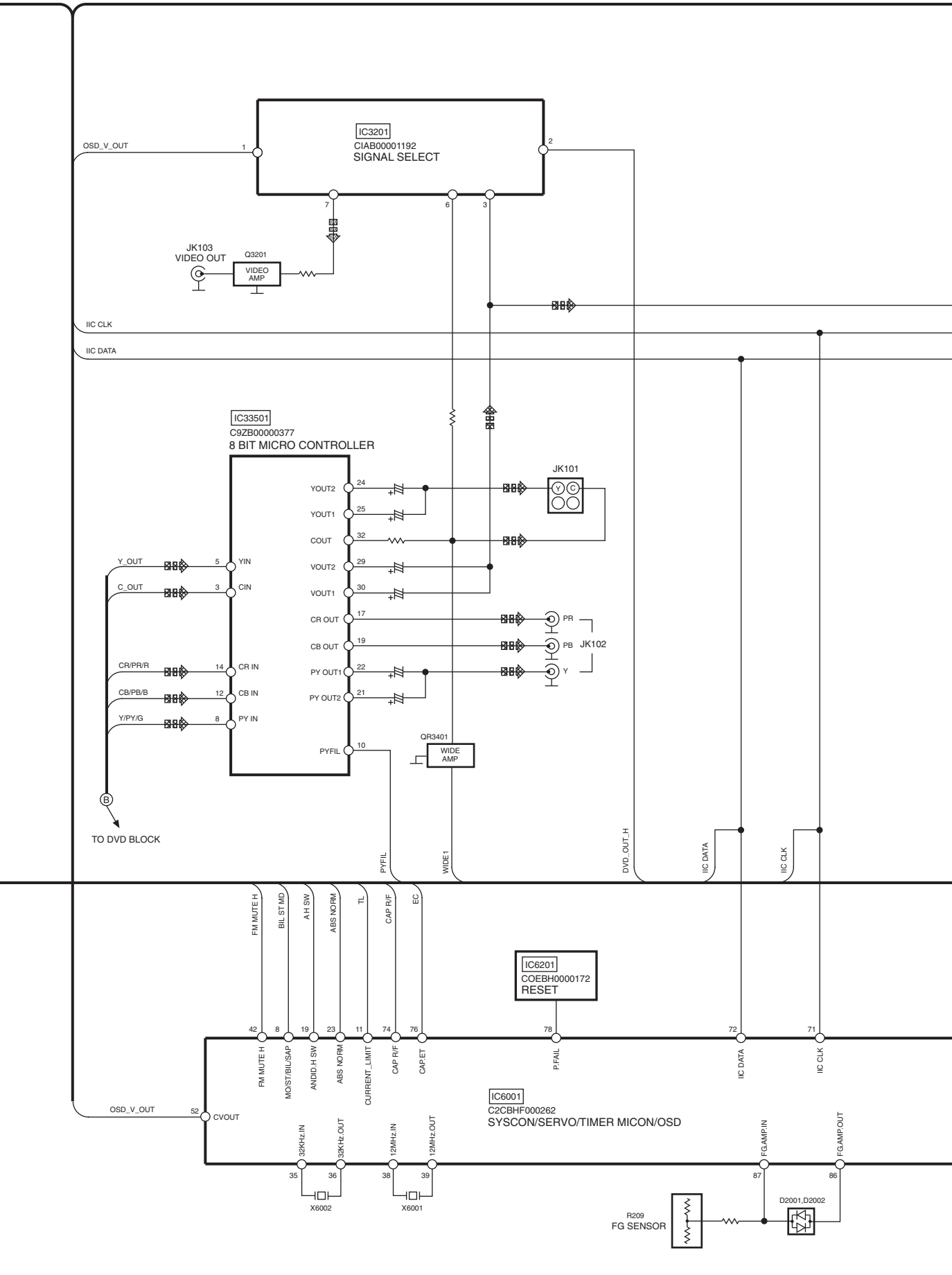

SWATT2
SWATT1
IC371
M62444FPEL
4CH VOLUME
IC701
COABCB000040
QUAD OP AMP
SL(R)
SW
C
CE
CLK
DO
DI
SD
Q703
MUTING SWITCH
Q701
MUTING SWITCH
Q702
MUTING CONTROL
+B
4CH VOL DT
4CH VOL LT
4CH VOL CK
MUTE CS
TNR_CE
TNR_CLK
TNR_DO
TNR_DI
TNR_SD
IC101
C2CBGF000166
MICRO CONTROLLER

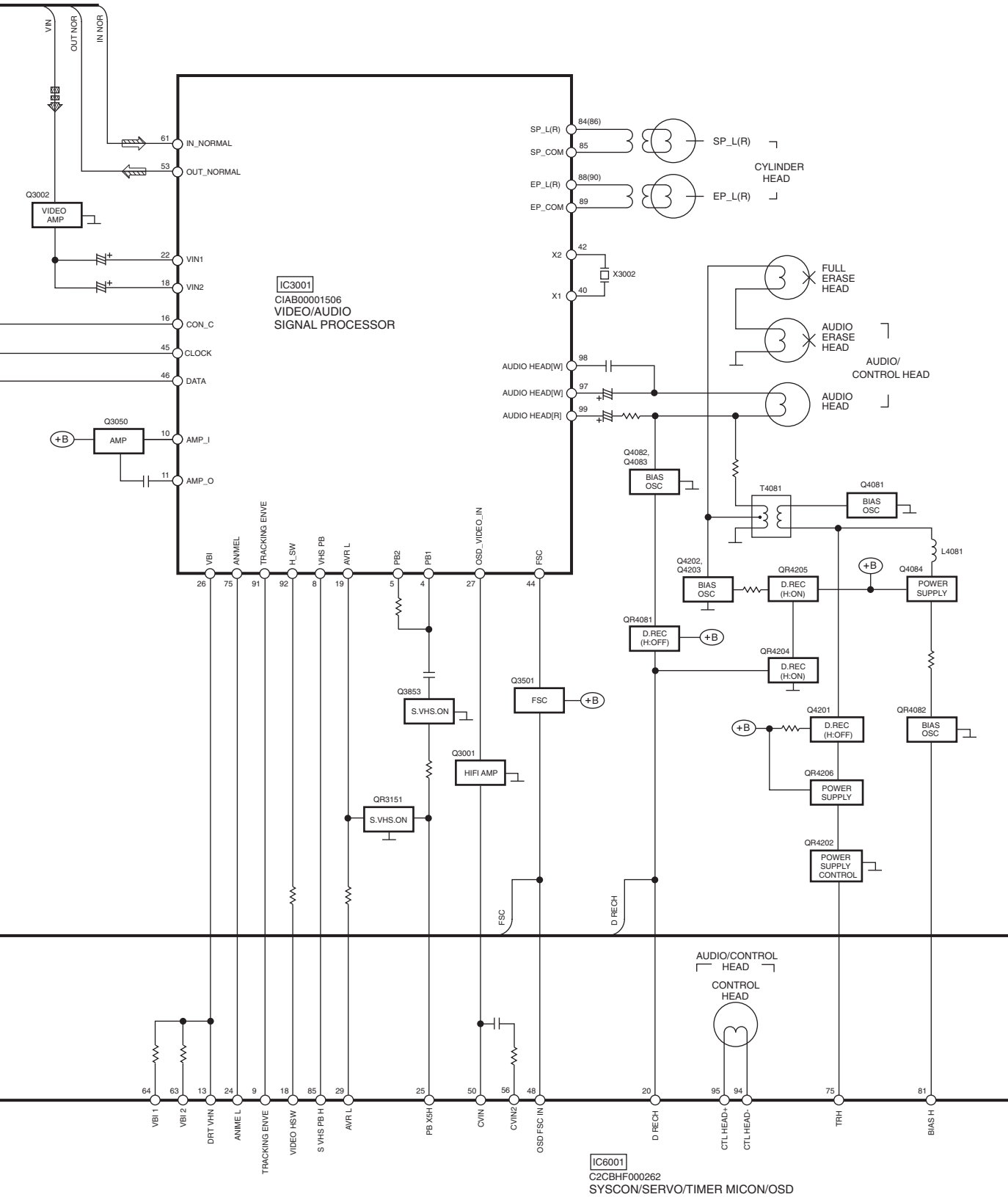

SIF
IN NOR
OUT NOR
IC4501
AN3663FBP-AV
AUDIO IC
LINE L(R)
13(8)
E4
L(R)
57(53)
62
NA IN
61
NA OUT
48
SIF IN
FL4561
QR4506
(QR4505)
MUTING
SWITCH
QR4504
MUTING
CONTROL
JK103
AUX L(R)
14(9)
E1
VCOFO
45
DATA
43
CLK
42
MUTE CT
36
NR REF
33
OUT
29
D4501
LED PORT L
56
AH SW
27
ENV
28
CYLINDER
HEAD
AUDIO
HEAD_L(R)
24(22)
HA1(2)
21
COM
ABS NORM
AH SW
BIL ST MO
D REC H
IIC CLK
IIC DATA
FSC
FM MUTE H
AV DI
AV DO
AV CLK
AV CS
Q104
SWITCH
Q103
SWITCH
Q102
SWITCH
VR901
(VOLUME JOG)
35
36
37
38
40
39
AV DO
AV DI
AV CLK
AV CS
JOG A
JOG B
IC101
C2CBGF000166
MICRO CONTROLLER

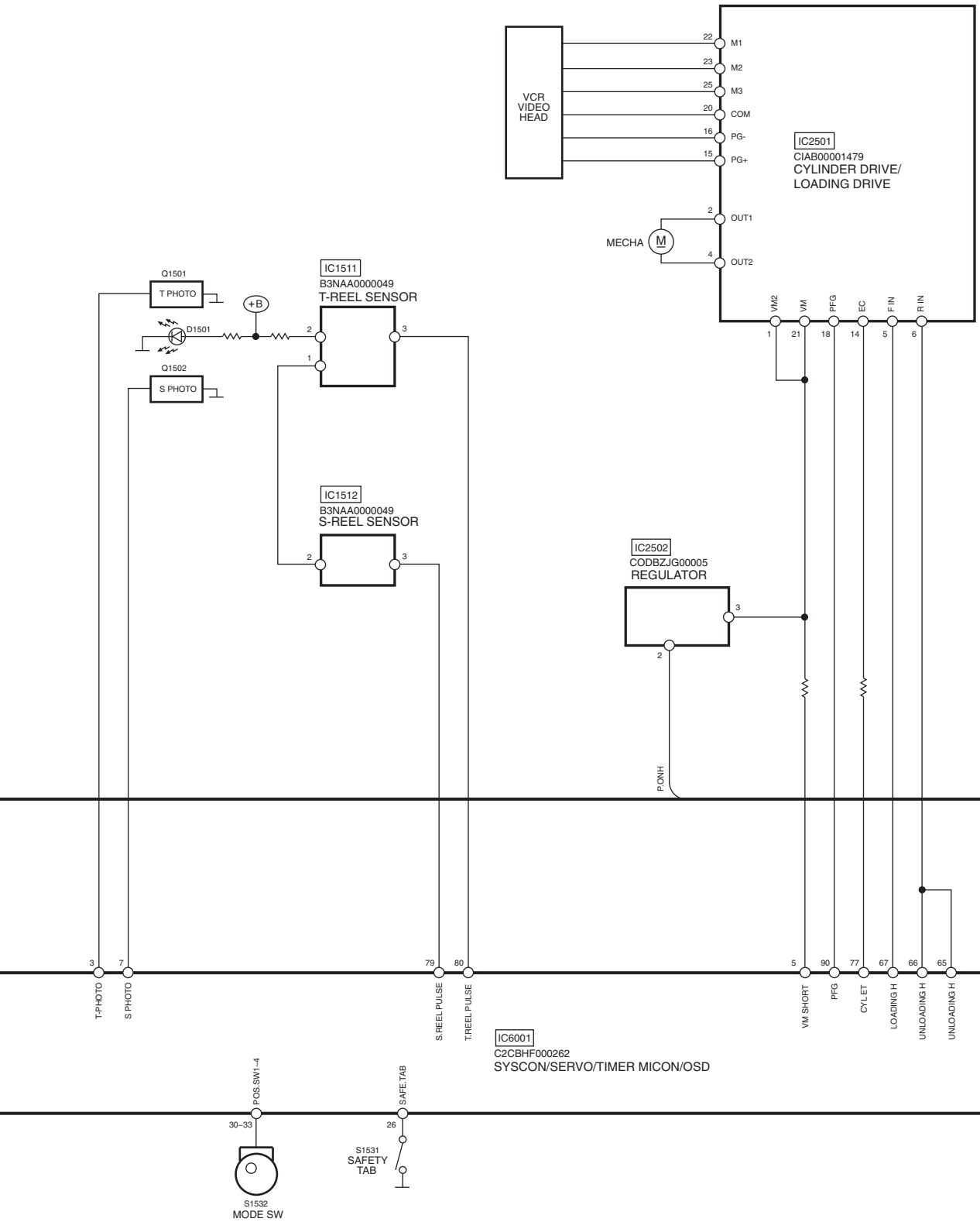

FL(R)
DPLC
DPLS
C
IC201
C2HBZC000013
DSP
68(72)
LIN1(R)
66(70)
LIN3(R)
3
X1
X201
4
X0
AOT1(2)
11(14)
AOT3
27
AOT4
30
IFDI
IFCK
/CS
/RST
54
53
52
50
IC401
COAABB000055
AMP
2(6)
1(7)
Q410
MUTING SWITCH
Q404
MUTING SWITCH
Q204
MUTING CONTROL
Q409
MUTING CONTROL
D401
Q403
SWITCH (CF ON/OFF)
Q405
SWITCH
Q406
SWITCH (CF1/CF2)
Q407
SWITCH
75
76
77
74
63
69
59
61
DSP DA
DSP CK
DSP CS
DSP RST
CF ON OFF
VOL ATT
MUTE F
CF1 2
IC101
C2CBGF000166
MICRO CONTROLLER

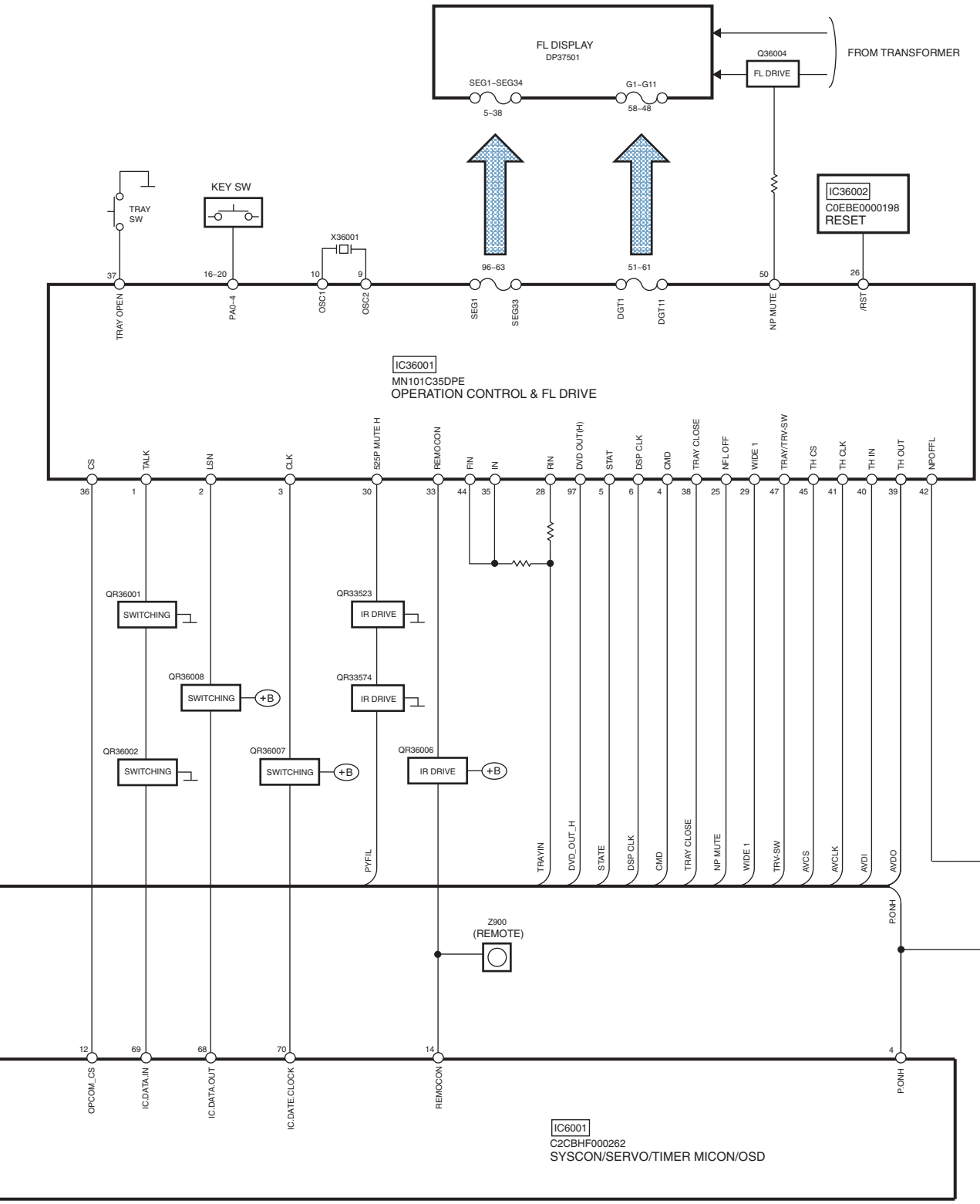

LINEL(R)
SWATT2
SW ATT1
SW
SL(R)
C
IC751
M62456FPE1
SUPER BASS
1(24) FL_CH(R)
6 SW
9 ATT1
10 ATT2
FL(R) 2(23)
MUTESW 21
JK104
TO ACTIVE
SUB-WOOFER
BLOCK
7(11) FL(R)
17 SW
15 C
12(14) SL(R)
SUB AC2 3
SUB AC1 1
DCDET 2
PCONT 19
SYNC 21
HPCTR 5
JK103
LINE OUT
L(R)
Q201
(Q202)
MUTING
SWITCH
−B
Q203
MUTING
CONTROL
Q782
SWITCH
Q781
MUTING
CONTROL
+B
JK901
HEADPHONE
Q408
MUTING
SWITCH
(HP)
Q401
HP
MUTING
CONTROL
D402
54 MUTE HP
68 MUTE LINE
47 HP SW
60 MUTE SW
67 HP CTR
18 AC IN
66 PCONT
IC101
C2CBGF000166
MICRO CONTROLLER

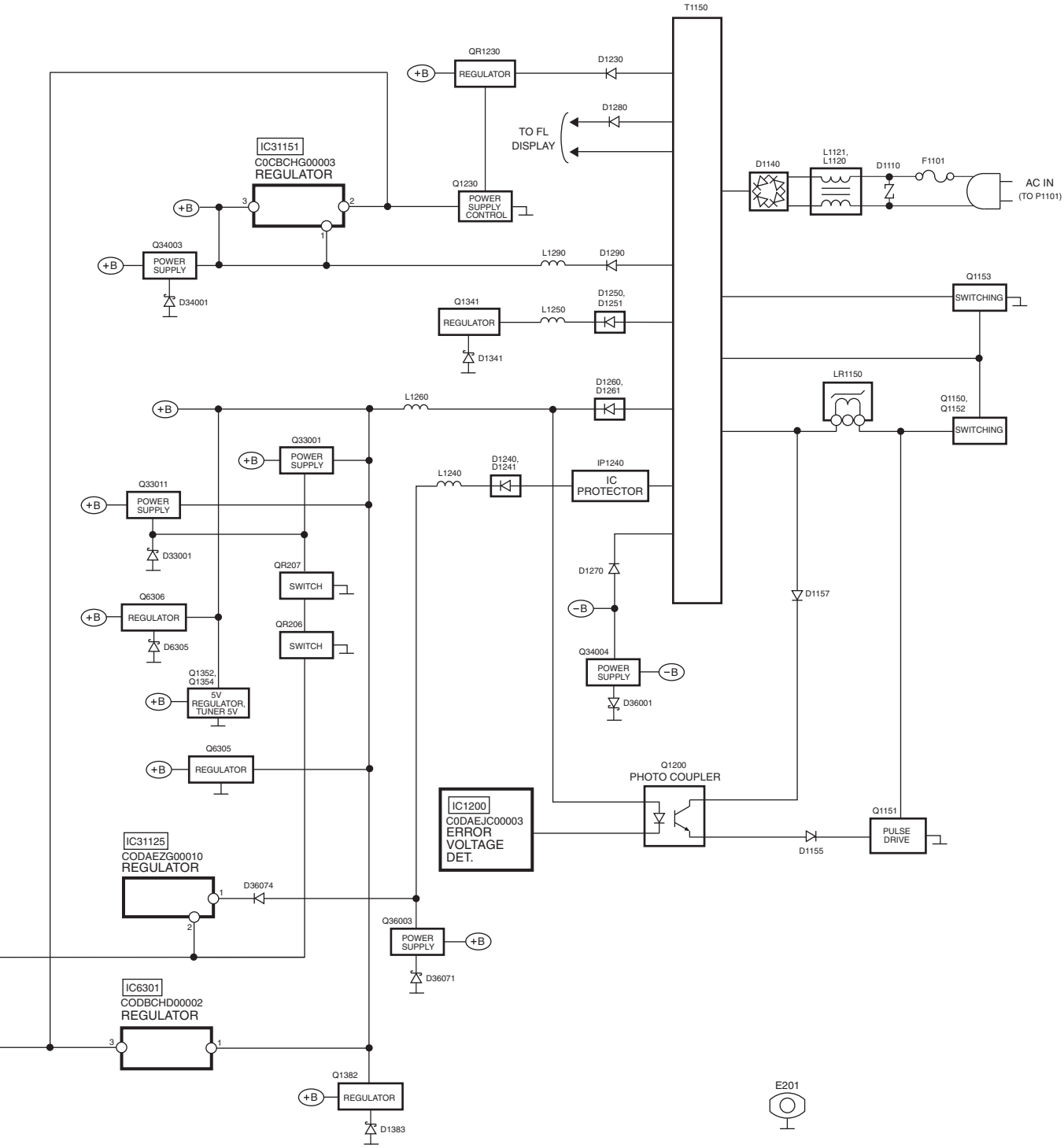

L801
+B
Q813
SWITCH
D801,
D802
Q810
SWITCH
D804
Q814
SWITCH
Q815
DCDET
SWITCH
Q811
SWITCH
D791
D803
Q812
SWITCH
+B
+B
Q801
REGULATOR
FP800
D806–
D809
L802
Q790,Q791
SWITCH
Q807
SWITCH
D815
FP801
–B
Q806
SWITCH
IC201
C1AB00001472
CAPSTAN DRIVE
R207
H3 HOLL
SENSOR
27
26
H2+
H2-
R208
H3 HOLL
SENSOR
25
24
H1+
H1
R210
H3 HOLL
SENSOR
23
22
H3+
H3-
L201
CAPSTAN MOTOR
MAIN COIL
A3
A2
A1
17
16
15
VH+
TL
EDS
EC
21
9
11
10
TL
CAP R/F
EC
78
DCDET
IC101
C2CBGF000166
MICRO CONTROLLER


IC3201
CIAB00001192
SIGNAL SELECT
OSD_V_OUT
JK103
VIDEO OUT
Q3201
VIDEO AMP
IIC CLK
IIC DATA
IC33501
C9ZB00000377
8 BIT MICRO CONTROLLER
JK101
YOUT2
YOUT1
COUT
VOUT2
VOUT1
CR OUT
CB OUT
PY OUT1
PY OUT2
PYFIL
Y_OUT
C_OUT
CR/PR/R
CB/PB/B
Y/PY/G
YIN
CIN
CR IN
CB IN
PY IN
PR
PB
Y
JK102
QR3401
WIDE AMP
TO DVD BLOCK
PYFIL
WIDE1
DVD_OUT_H
IIC DATA
IIC CLK
FM MUTE H
BIL ST MD
A H SW
ABS NO/RM
TL
CAP R/F
EC
IC6201
COEBH0000172
RESET
FM MUTE H
MO/ST/BIL/SAP
ANDID.H SW
ABS NO/RM
CURRENT_LIMIT
CAP R/F
CAP.ET
P.FAIL
IIC DATA
IIC CLK
IC6001
C2CBHF000262
SYSCON/SERVO/TIMER MICON/OSD
OSD_V_OUT
CVOUT
32KHz.IN
32KHz.OUT
12MHz.IN
12MHz.OUT
FG.AMP.IN
FG.AMP.OUT
X6002
X6001
R209
FG SENSOR
D2001,D2002


VIN
OUT NOR
IN NOR
61 IN_NORMAL
53 OUT_NORMAL
Q3002
VIDEO AMP
22 VIN1
18 VIN2
16 CON_C
45 CLOCK
46 DATA
Q3050
+B
AMP
10 AMP_I
11 AMP_O
IC3001
CIAB00001506
VIDEO/AUDIO
SIGNAL PROCESSOR
SP_L(R) 84(86)
SP_COM 85
EP_L(R) 88(90)
EP_COM 89
SP_L(R)
EP_L(R)
CYLINDER HEAD
X2 42
X1 40
X3002
FULL ERASE HEAD
AUDIO ERASE HEAD
AUDIO/ CONTROL HEAD
AUDIO HEAD[W] 98
AUDIO HEAD[W] 97
AUDIO HEAD[R] 99
AUDIO HEAD
Q4082, Q4083
BIAS OSC
T4081
Q4081
BIAS OSC
L4081
Q4202, Q4203
BIAS OSC
QR4205
D.REC (H:ON)
+B
Q4084
POWER SUPPLY
QR4081
D.REC (H:OFF)
+B
QR4204
D.REC (H:ON)
Q4201
D.REC (H:OFF)
QR4082
BIAS OSC
QR4206
POWER SUPPLY
QR4202
POWER SUPPLY CONTROL
VBI 26
ANIMEL 75
TRACKING ENVE 91
H_SW 92
VHS PB 8
AVR L 19
PB2 5
PB1 4
OSD_VIDEO_IN 27
FSC 44
Q3853
S.VHS.ON
Q3501
FSC
+B
Q3001
HIFI AMP
QR3151
S.VHS.ON
FSC
D RECH
AUDIO/CONTROL HEAD
CONTROL HEAD
64 VBI I
63 VBI 2
13 DRT VHN
24 ANIME L
9 TRACKING ENVE
18 VIDEO HSW
85 S VHS PB H
29 AVR L
25 PB XSH
50 CVIN
56 CVIN2
48 OSD FSC IN
20 D RECH
95 CTL HEAD+
94 CTL HEAD-
75 TRH
81 BIAS H
IC6001
C2CBHF000262
SYSCON/SERVO/TIMER MICON/OSD


VCR
VIDEO
HEAD
22
M1
23
M2
25
M3
20
COM
16
PG-
15
PG+
IC2501
CIAB00001479
CYLINDER DRIVE/
LOADING DRIVE
2
OUT1
MECHA
M
4
OUT2
VM2
VM
PFG
EC
F IN
R IN
1
21
18
14
5
6
Q1501
T PHOTO
+B
D1501
IC1511
B3NAA0000049
T-REEL SENSOR
2
3
1
Q1502
S PHOTO
IC1512
B3NAA0000049
S-REEL SENSOR
2
3
IC2502
CODBZJG00005
REGULATOR
3
2
P.ON/H
3
7
79
80
5
90
77
67
66
65
T.PHOTO
S.PHOTO
S.REEL.PULSE
T.REEL.PULSE
VM.SHORT
PFG
CYL.ET
LOADING.H
UNLOADING.H
UNLOADING.H
IC6001
C2CBHF000262
SYSCON/SERVO/TIMER MICON/OSD
POS.SW1-4
S.AFE.TAB
30~33
26
S1531
SAFETY
TAB
S1532
MODE SW


FL DISPLAY
DP37501
SEG1~SEG34
5~38
G1~G11
58~48
Q36004
FL DRIVE
FROM TRANSFORMER
KEY SW
TRAY SW
X36001
IC36002
C0EBE0000198
RESET
37
16~20
10
9
96~63
51~61
50
26
TRAY OPEN
PA0~4
OSC1
OSC2
SEG1
SEG33
DGT1
DGT11
NP MUTE
/RST
IC36001
MN101C35DPE
OPERATION CONTROL & FL DRIVE
CS
TALK
LSN
CLK
S25P MUTE H
REMOCON
FIN
IN
RIN
DVD OUT(H)
STAT
DSP CLK
CMD
TRAY CLOSE
NFL OFF
WIDE 1
TRAY/TRV-SW
TH CS
TH CLK
TH IN
TH OUT
NPOFFL
36
1
2
3
30
33
44
35
28
97
5
6
4
38
25
29
47
45
41
40
39
42
QR36001
SWITCHING
QR33523
IR DRIVE
QR36008
SWITCHING
+B
QR33574
IR DRIVE
QR36002
SWITCHING
QR36007
SWITCHING
+B
QR36006
IR DRIVE
+B
PYFIL
TRAYIN
DVD_OUT_H
STATE
DSP CLK
CMD
TRAY CLOSE
NP MUTE
WIDE 1
TRV-SW
AVCS
AVCLK
AVDI
AVDO
P.ONH
Z900
(REMOTE)
12
69
68
70
14
4
OPCOM_CS
IC.DATA.IN
IC.DATA.OUT
IC.DATE.CLOCK
REMOCON
P.ONH
IC6001
C2CBHF000262
SYSCON/SERVO/TIMER MICON/OSD



SIGNAL LINES

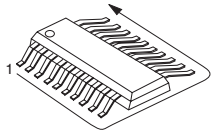
: MAIN SIGNAL LINE
: DVD AUDIO SIGNAL LINE
: FM /AM SIGNAL LINE
: CD-DA (AUDIO /VIDEO) SIGNAL LINE
: VCD VIDEO SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: AUX SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

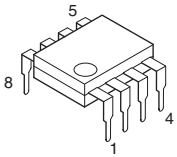
NOTE : Signal Lines are applicable to the Left Channel only.

C0JBAR000292 (16p)
C1DB00000582 (16p)
C9ZB00000377 (32p)
KIA4558FEL (8 p)
C3ABPG000068 (54p)
M62444FPE1 (42p)
M62456FPE1 (24p)
C0JBAS000008 (14p)

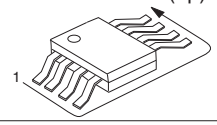
C0ABCB000040 (14p)
C1AB00001472 (28p)



C0AABB000055

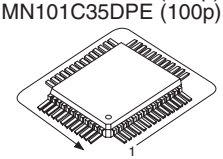


C1AB00001192 (8p)
C0DBCHD00002 (6p)
C0ABBB000108 (8p)
C0EBE0000198 (4p)

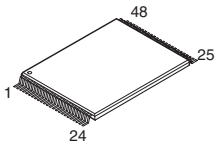


C2HBZC000013 (80p)
MN103S26EGA (176p)
C0FBBK000036 (48p)
MN102H60GFD (100p)
AN22030A-VT (64p)
MN6775511 (208p)
C2CBGF000166 (100p)
AN3663FBP-AV (64p)

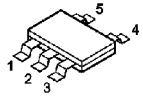
C2CBHF000262 (100p)
C1AB00001506 (100p)
MN101C35DPE (100p)



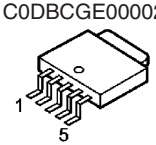
RFKFMA66M320



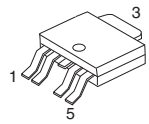
C0EBH0000172
C0EBE0000070
C0JBAS000116



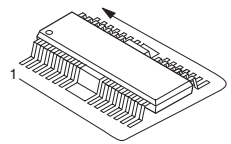
C0CBCBE00003
C0DBFFG00004
C0DBCGE00002



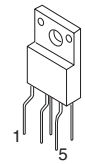
C0DBZJG00005
C0CBCHG00001



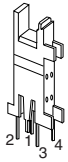
C0GBG0000033 (28p)
C1AB00001479 (25p)



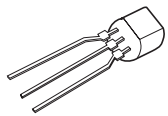
C0DAEZG00010



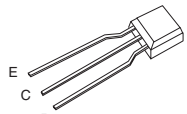
B3NAA0000049



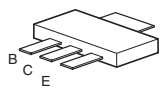
C0DAEJC00003



B1GACFLL0005
B1GBCFJN0004



B1BDBF000004



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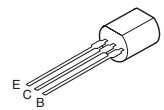

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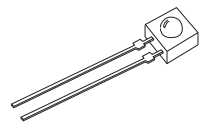

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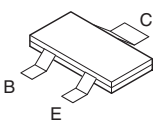

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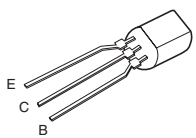

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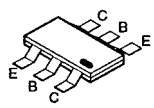

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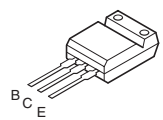

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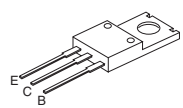

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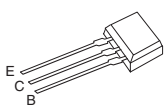

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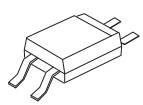

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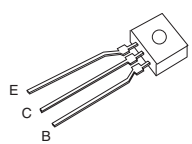

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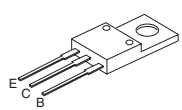

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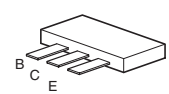

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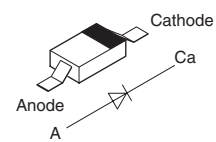

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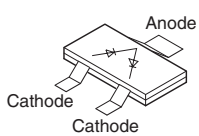

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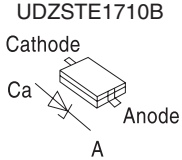

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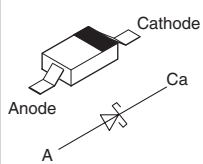

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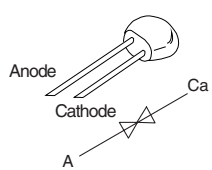

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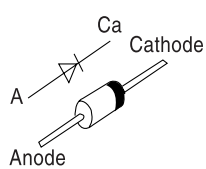

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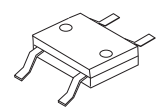

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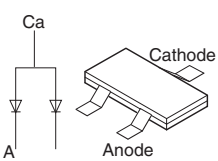

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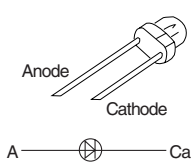

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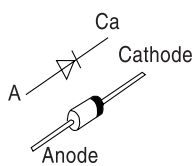

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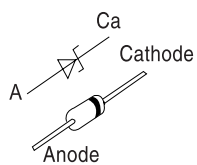

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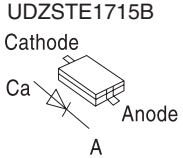

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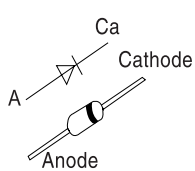

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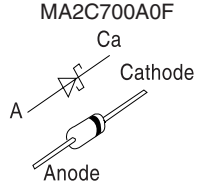

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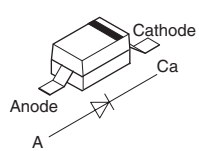
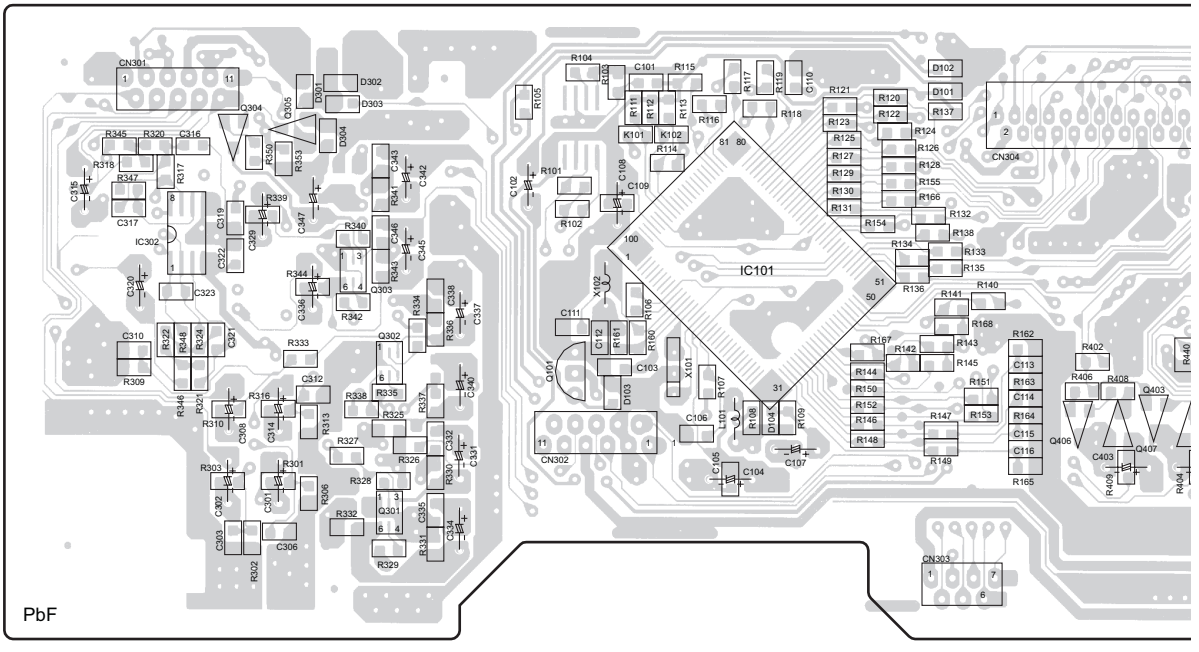
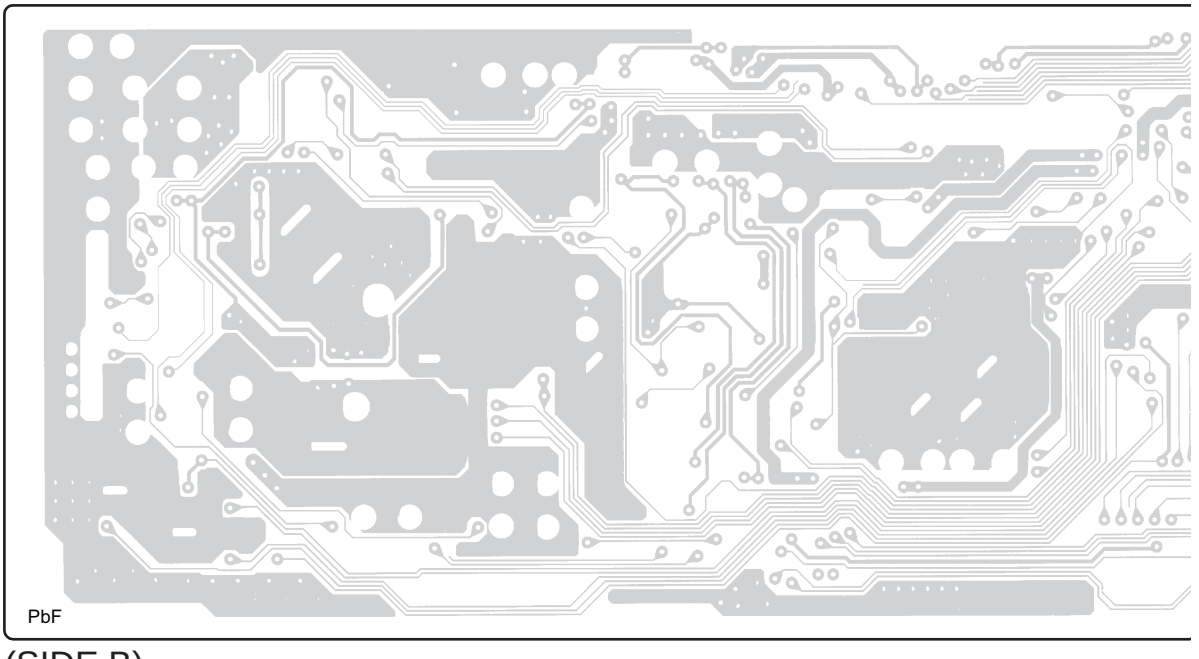


D DSP P.C.B (VEP03G36A)



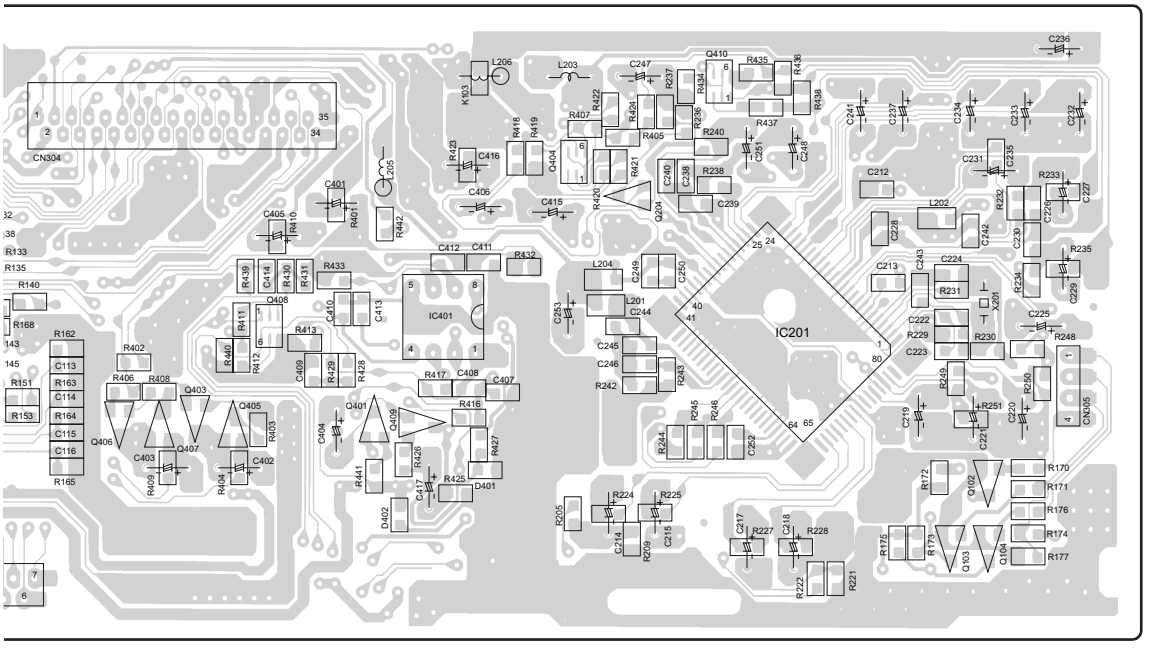
(SIDE A)

D DSP P.C.B (VEP03G36A)



(SIDE B)

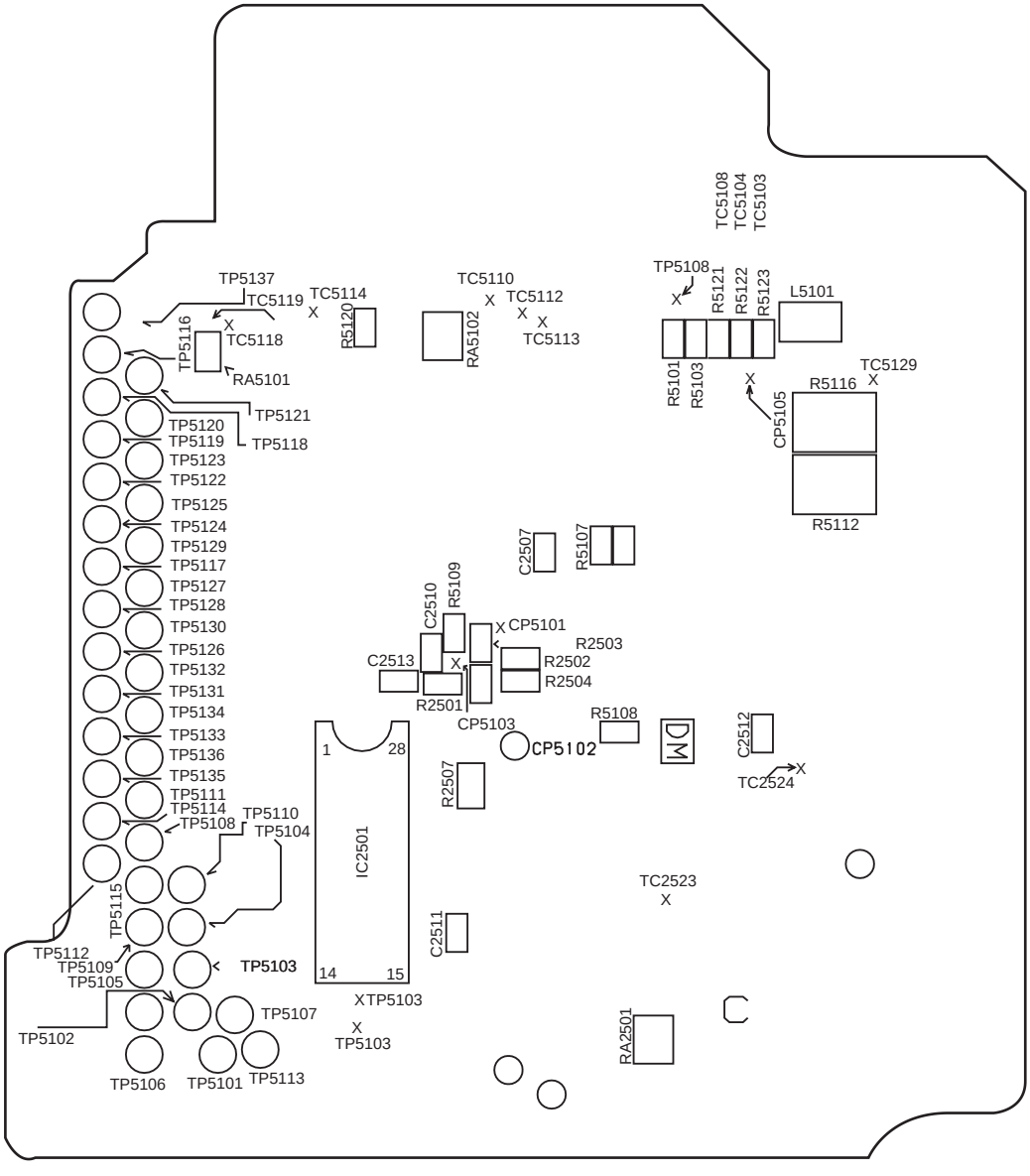
G H I J K L M



A B C D E F G

1 2 3 4 5 6 7 8 9

A DVD MODULE (1) P.C.B (REP3406A-1N)

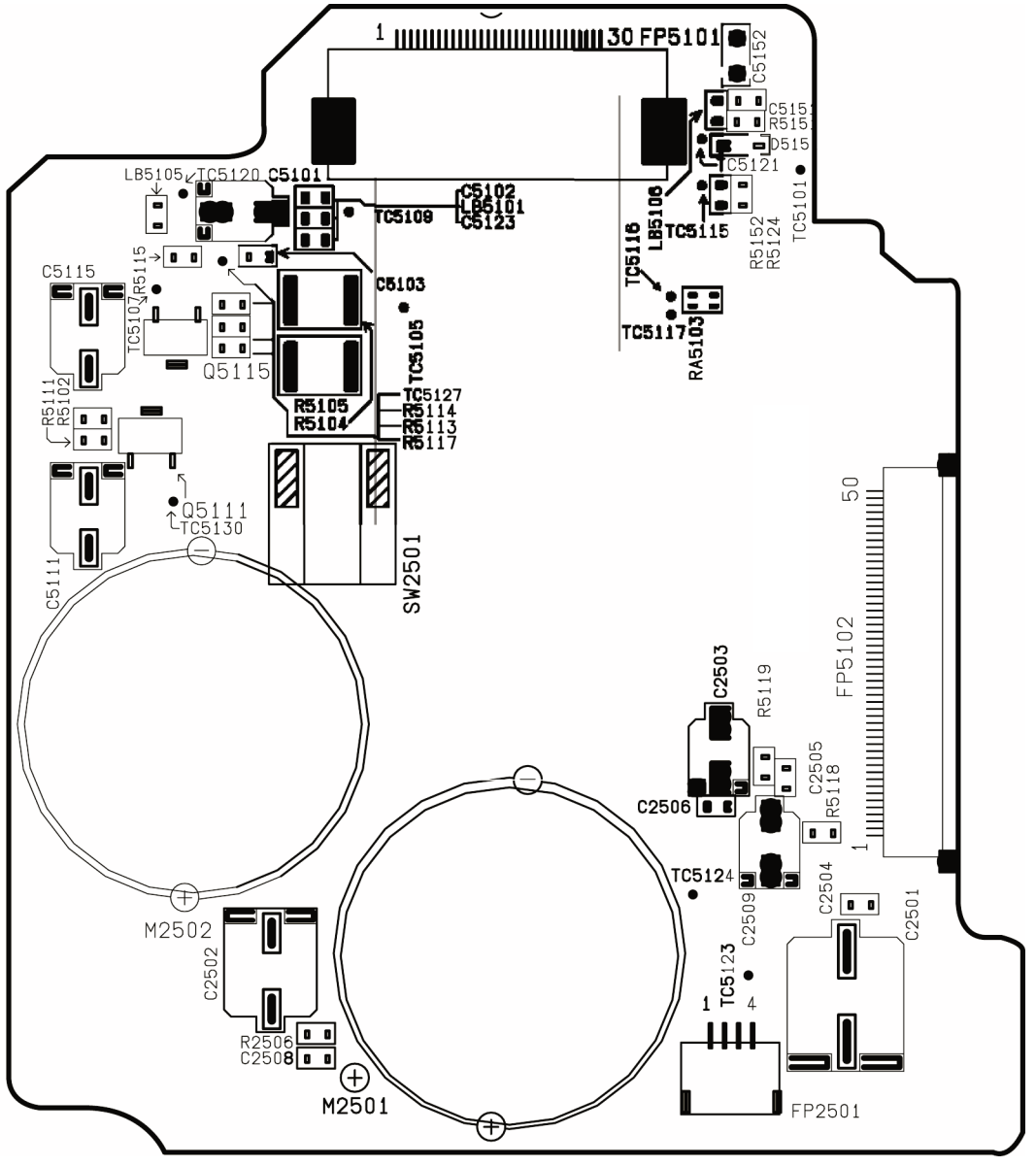


(SIDE A)

A B C D E F G

1 2 3 4 5 6 7 8 9

A DVD MODULE (1) P.C.B (REP3406A-1N)



(SIDE B)

A B C D E F G

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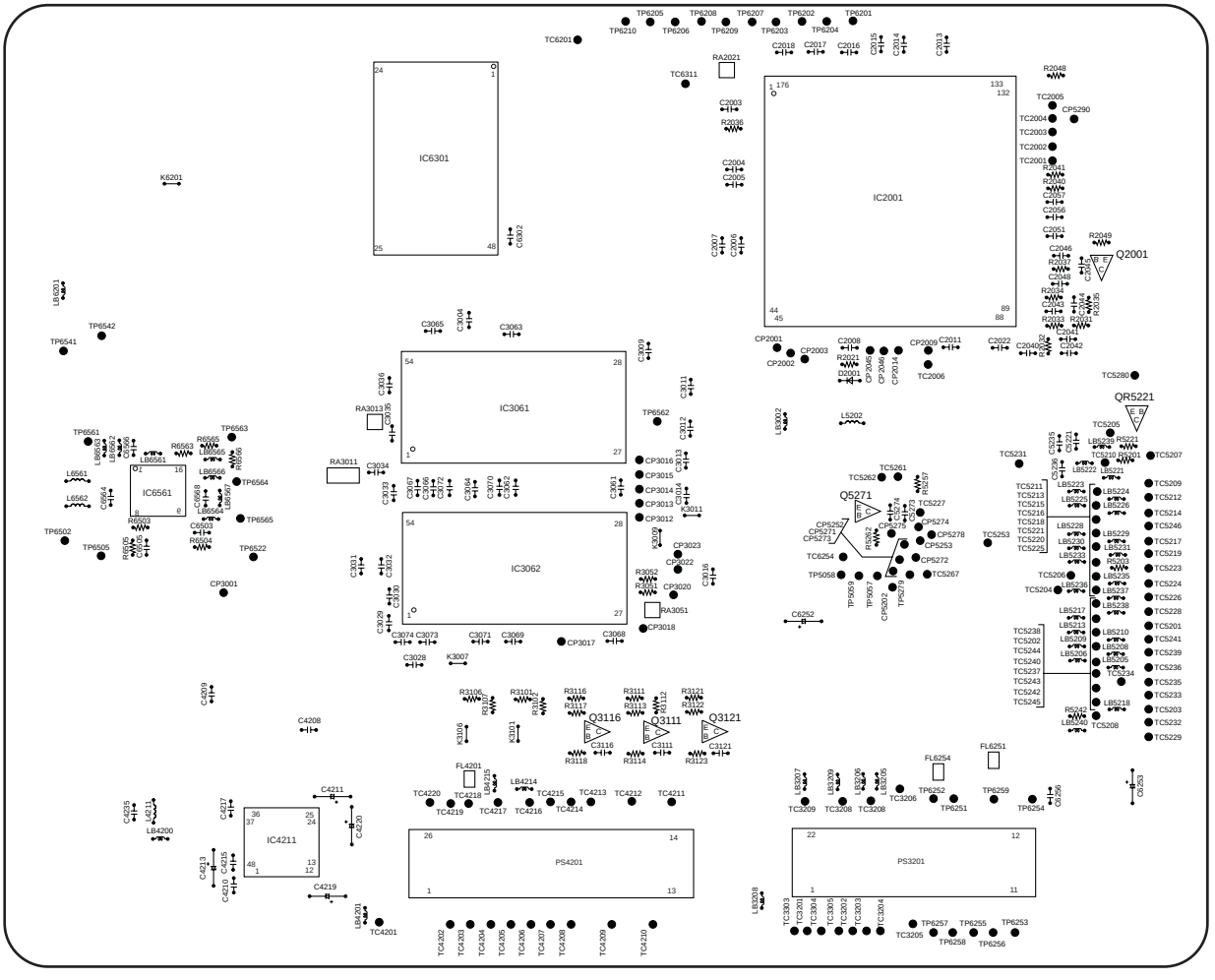
B DVD MODULE (2) P.C.B (REPX0371A)



(SIDE A)

A B C D E F G

1 2 3 4 5 6 7 8 9

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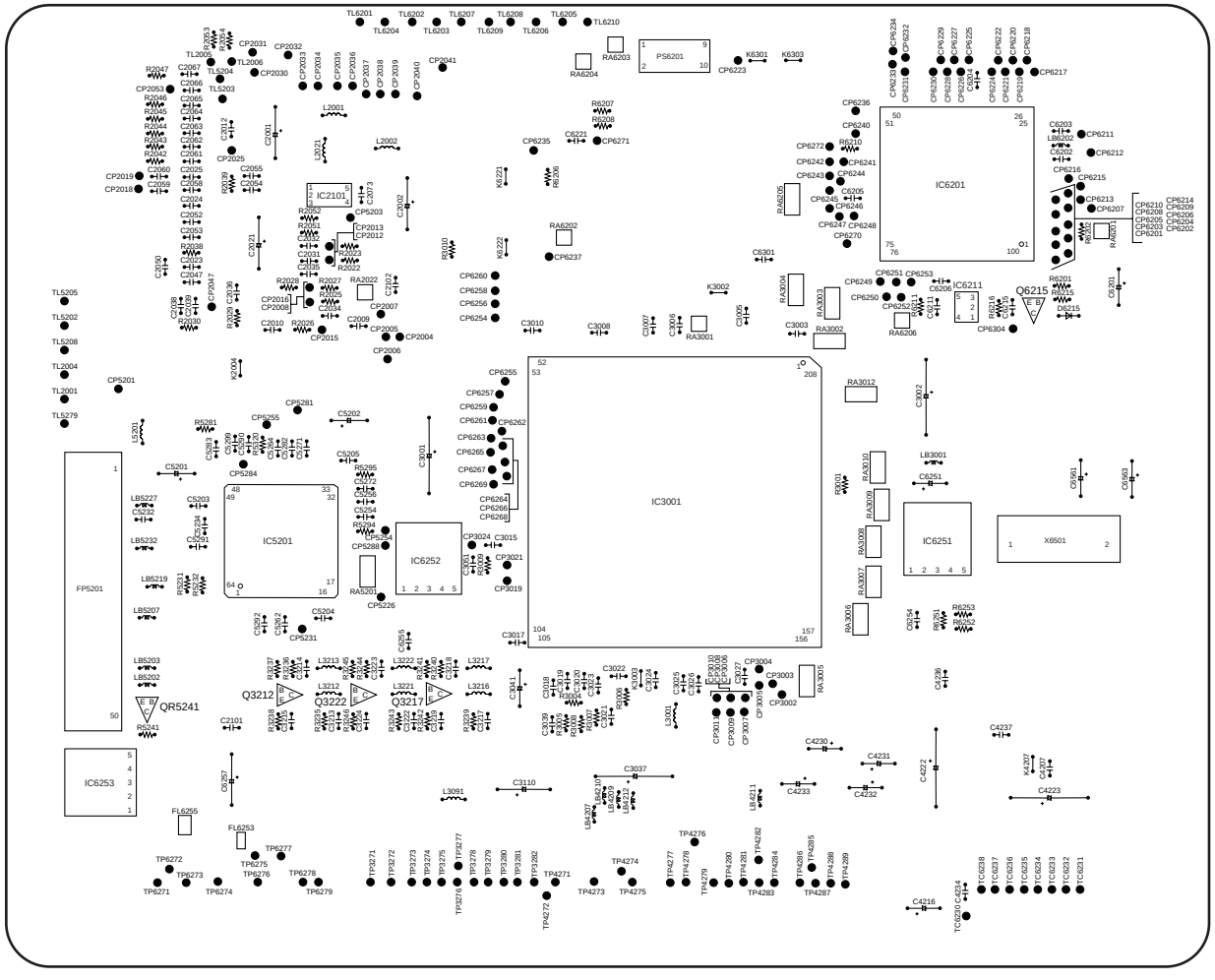

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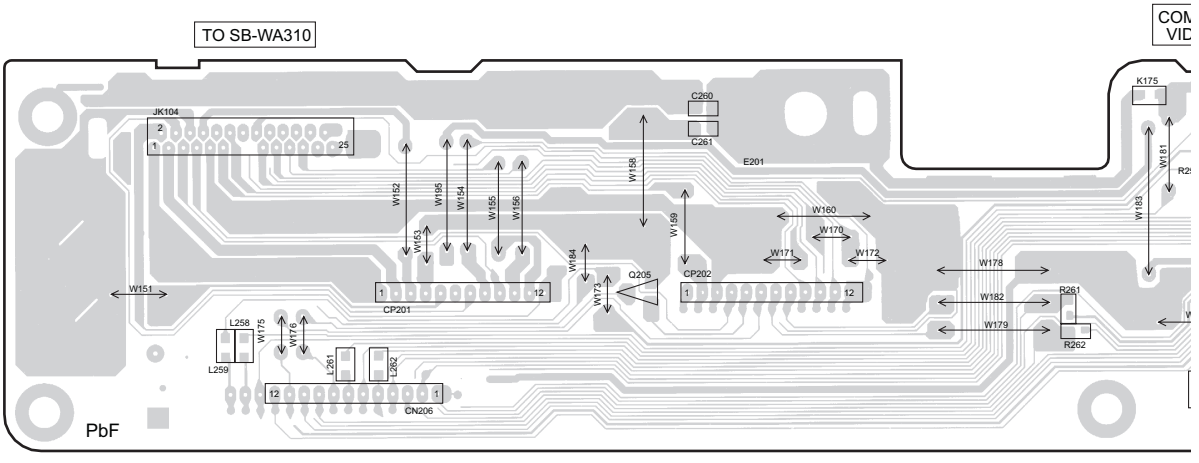
G INPUT P.C.B (VEP03G37A)



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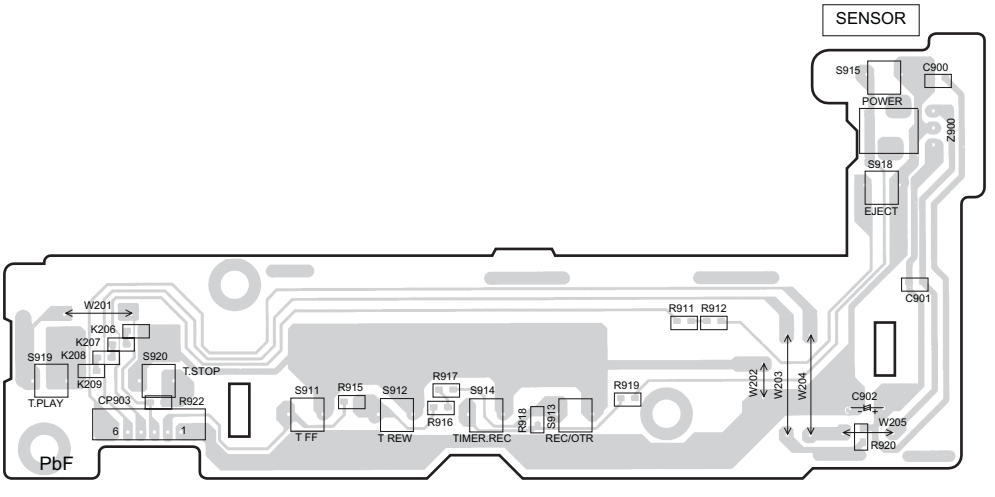

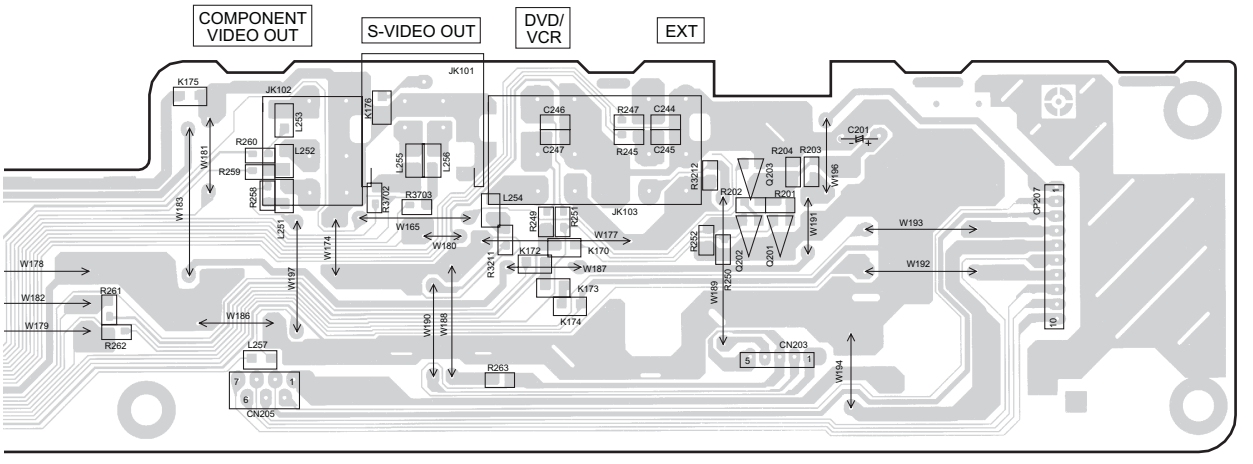

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